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MORAL PHILOSOPHY;

OR,

THE DUTIES OF MAN

CONSIDERED IN HIS

INDIVIDUAL, SOCIAL, AND DOMESTIC

CAPACITIES.

BY

GEORGE COMBE

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PREFACE.

THE present work appears in the form of lectures, which were composed under the following circumstances :

In 1832, an association was formed by the industrious classes of Edinburgh, for obtaining instruction in useful and entertaining knowledge, by means of lectures, to be delivered in the evenings after business-hours. These lectures were designed to be popular in regard to style and illustration, but systematic in arrangement and extent. I was requested to deliver a course on Moral Philosophy, commencing in November, 1835, and proceeding on each Monday evening, till April, 1836. Another evening in each week was devoted to Astronomy ; and two nights more to Chemistry. Thus, there were delivered twenty consecutive lectures on Moral Philosophy, on the Monday evenings ; fifty lectures on Chemistry, on the evenings of Tuesdays and Fridays ; and twenty-five lectures on Astronomy, on the Thursday evenings. The audience amounted to between five and six hundred persons of both sexes.

In twenty lectures, addressed to such an audience, only a small portion of a very extensive field of science could be touched upon. It was necessary also to avoid, as much as possible, abstract and speculative questions, and to dwell chiefly on topics simple, interesting, and practically useful. These circumstances account for the introduction of such subjects as Suretyship, Arbitration, Guardianship, and some others, not usually treated of in works on Moral Philosophy ; and also for the occasional omission of that rigid application of the principles on which the work is founded, to the case of every duty, which would have been necessary in a purely scientific treatise. These principles, however, although not always stated, are never intentionally departed from.

A large number of my auditors had studied phrenology, and many of them had read my work on "The Constitution of Man :" I did not hesitate, therefore, to found the lectures on phrenological principles. As, however, they were not, in general, regular students of philosophy, but persons engaged in practical business, their recollection of the principles could not be entirely relied on, and it became necessary to restate these at considerable length. This is the cause of a more extensive repetition, in these lectures, of views already published in "The Constitution of Man," and in my phrenological writings, than, in ordinary circumstances, would have been admissible.

The lectures were reported, by one of my hearers, in the *Edinburgh Chronicle* newspaper, and excited some attention. Still, however, I did not consider them worthy of being presented to the public as a separate work, and they have not

hitherto appeared in this form in Britain. I transmitted a copy of the "Reports" to a friend in Boston, U. S., when they were reprinted by Messrs. Marsh, Capen, and Lyon, in a small duodecimo volume. The entire edition was purchased by the American public; and, encouraged by this indication of approval, I sent, during my residence in America, for the original manuscript, (which I had left in Edinburgh,) and last spring published at Boston the entire lectures, with such additions and improvements as they appeared to stand in need of. Since my return to Scotland, I have subjected the volume to another revision, and now offer an improved edition to the British public.

I am aware that, in founding moral philosophy on phrenology, I shall appear to those persons who have not ascertained the truth of the latter science, to be putting forward mere conjectures as the basis of human duty.

In answer to this objection, I respectfully remark, that scientific truths exist independently of human observation and opinion. The globe revolved on its axis, and carried the pope and seven cardinals whirling round on its surface, at the very moment when he and they declared the assertion of such a fact to be a damnable heresy, subversive of Christianity. In like manner, the brain performs its functions equally in those who deny, and in those who admit, their existence. I observe that in one anti-phrenologist, in whom the anterior lobe is small, the intellect is feeble; and that in another, in whom it is large and well constituted, the intellect is powerful, altogether independently of their own belief in these facts. I have remarked, also, that when the brain of an anti-phrenologist has been diseased in a particular organ, he has become deranged in the corresponding faculty, notwithstanding his denial of all connexion between them. The fact, therefore, that many persons do not admit the truth of phrenology, does not necessarily render it an imaginary science. The denial by Harvey's contemporaries of the circulation of the blood, did not arrest the action of the heart, arteries, and veins.

In phrenology, as in general physiology and other sciences, there are points still unascertained, and these may hereafter prove to be important; but the future discovery of the functions of the spleen will never overturn the ascertained functions of the lungs or spinal marrow; and, in like manner, the ascertainment of the uses of certain unknown parts at the base of the brain, will not alter the ascertained functions of the anterior lobe and coronal region. I consider the phrenological principles on which I have founded the following lectures, to be established by such an extensive induction of facts, that they will sustain the severest scrutiny and not be found wanting; and I shall, with becoming resignation, abide by the verdict of those, who, by study and observation, shall have rendered themselves competent to judge of their merits.

EDINBURGH, 1*st October*, 1840.

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MORAL PHILOSOPHY

LECTURE I.

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In an introductory discourse on Moral Philosophy, the lecturer unfortunately has few attractions to offer. His proper duty is, not to descant in glowing terms on the dignity of moral investigations, and on the extreme importance of sound ethical conclusions both to public and to private happiness; but to give an account of the state in which his science at present exists, and of what he means to teach in his subsequent prelections. No subject can be conceived more destitute of direct attraction. I must beg your indulgence, therefore, for the dryness of the details and the abstractness of the argument in this lecture. I make these

observations that you may not feel discouraged by an appearance of difficulty in the commencement. I shall use every effort to render the subject intelligible, and I promise you that the subsequent discourses shall be more practical and less abstruse than the present.

Our first inquiry is into the basis of morals regarded as a *science;* that is, into the *natural* foundations of moral obligation.

There are two questions—very similar in terms, but widely different in substance—which we must carefully distinguish. The one is, What actions *are* virtuous? and the other, What *constitutes* them virtuous? The answer to the first question, fortunately, is not difficult. Most individuals agree that it is virtuous to love our neighbour, to reward a benefactor, to discharge our proper obligations, to love God, and so forth; and that the opposite actions are vicious. But when the second question is put—*Why* is an action virtuous—*why* is it virtuous to love our neighbour, or to manifest gratitude or piety? the most contradictory answers are given by philosophers. The discovery of what constitutes virtue is a fundamental point in moral philosophy; and hence the difficulties of the subject meet us at the very threshold of our inquiries.

It appears to me, that man has received a definite bodily and mental constitution, which clearly points to certain objects as excellent, to others as proper, and to others as beneficial to him; and that endeavours to attain these objects are prescribed to him as duties by the law written in his constitution; while, on the other hand, whatever tends to defeat their attainment is forbidden. The web-foot of the duck, for instance, clearly bespeaks the Creator's intention that this creature should swim; and He has given it an internal impulse which prompts it to act accordingly. The human constitution indicates various courses of action to be designed for man, as clearly as the web-foot indicates the water to be a sphere of the duck's activity; but man has not received, like the duck, instincts calculated to prompt him, unerringly, to act in accordance with the adaptations of his constitution:—He is, however, endowed with reason, qualifying him to discover both the adaptations themselves, and the consequences of acting in conformity with, or in opposition to, them: Hence, in order to determine, by the light of reason, what constitutes an action virtuous

or vicious, he must become acquainted with his bodily and mental constitution, and its relations. Hitherto this knowledge has been very deficient.

Philosophers have never been agreed about the existence or non-existence even of the most important mental faculties and emotions in man—such as benevolence, and the sentiment of justice; and being uncertain whether such emotions exist or not, they have had no stable ground from which to start in their inquiries into the foundations of virtue. Accordingly, since the publication of the writings of Hobbes, in the 17th century, there has been a constant series of disputes among philosophers on this subject. Hobbes taught that the laws which the civil magistrate enjoins are the ultimate standards of morality. Cudworth endeavoured to show that the origin of our notions of right and wrong is to be found in a particular faculty of the mind which distinguishes truth from falsehood. Mandeville declares that the moral virtues are mere sacrifices of self-interest made for the sake of public approbation, and calls virtue the "political offspring which flattery begot upon pride." Dr. Clarke supposes virtue to consist in acting according to the fitnesses of things. Mr. Hume endeavoured to prove that "utility is the constituent or measure of virtue." Dr. Hutcheson maintains that it originates in the dictates of a moral sense. Dr. Paley does not admit such a faculty, but declares virtue to consist "in doing good to mankind in obedience to the will of God, and for the sake of everlasting happiness." Dr. Adam Smith endeavours to show that sympathy is the source of moral approbation. Dr. Reid, Mr. Stewart, and Dr. Thomas Brown, maintain the existence of a moral faculty. Sir James Mackintosh describes conscience to be compounded and made up of associations Dr. Ralph Wardlaw, of Glasgow, in a work on Ethics, published in 1834, can see nothing in Conscience except Judgment.

Here, hen, we discover the most extraordinary conflict of opinion prevailing concerning the foundation of virtue. But this does not terminate the points of dispute among philosophers in regard to moral science. Its very existence, nay, the very possibility of its existence, as a philosophical study, is called in question. Dr. Wardlaw says, "Suppose that a chemist were desirous to ascertain the ingredients of water. What estimate should we form of his judgment,

if, with this view, he were to subject to his analysis a quantity of what had just passed in the bed of a sluggish river, through the midst of a large manufacturing city, from whose common sewers, and other outlets of impurity, it had received every possible contamination which, either by simple admixture or by chemical affinity, had become incorporated with the virgin purity of the fountain; and if, proceeding on such analysis, he were to publish to the world his *thesis* on the composition of water? Little less preposterous must be the conduct of those philosophers who derive their ideas of what constitutes rectitude in morals from human nature *as it is*. They analyze the water of the polluted river, and refuse the guide that would conduct them to the mountain spring of its native purity."—(*Christian Ethics*, p. 44.)

In these remarks Dr. Wardlaw evidently denies the possibility of discovering, in the constitution of the human mind, a foundation for a sound system of Ethics. He supports his denial still more strongly in the following words: "According to Bishop Butler's theory, human nature is '*adapted to virtue*' *as evidently as* '*a watch is adapted to measure time.*' But suppose the watch, by the perverse interference of some lover of mischief, to have been so thoroughly disorganized—its moving and its subordinate parts and power so changed in their collocation and their mutual action, that the result has become a constant tendency to go backward instead of forward, or to go backward and forward with irregular, fitful, ever-shifting alternation—so as to require a complete remodelling, and especially a readjustment of its great moving power, to render it fit for its original purpose; would not this be a more appropriate analogy for representing the present character of fallen man? The whole machine is out of order. The mainspring has been broken; and an antagonist power works all the parts of the mechanism. It is far from being with human nature as Butler, by the similitude of the watch, might lead his readers to suppose. The watch, when duly adjusted, is only, in his phrase, 'liable to be out of order.' This might suit for an illustration of the state of human nature *at first*, when it received its constitution from its Maker. But it has lost its appropriateness *now*. That nature, alas! is not now a machine that is merely 'apt to go out of order;' it *is* out of order; so radically disorganized, that the grand

original power which impelled all its movements has been broken and lost, and an unnatural power, the very opposit of it, has taken its place ; so that it cannot be restored to the original harmony of its working, except by the interposition of the omnipotence that framed it." (P. 126.)

The ideas here expressed by Dr. Wardlaw, are entertained, with fewer or more modifications, by large classes of highly respectable men, belonging to different religious denominations.

How, then, amid all this conflict of opinion as to the foundations, and even possibility of the existence, of moral science, is any approach to certainty to be attained ?

I have announced that this course of lectures will be founded on phrenology. I intend it for those hearers who have paid some attention to this science ; who have seen reasonable evidence that the brain consists of a congeries of organs—that each organ manifests a particular mental faculty—and that, other conditions being equal, the power of manifesting each faculty bears a proportion to the size of its organs. To those individuals who have not seen sufficient evidence of the truth of these positions, I fear that I have little that can be satisfactory to offer. To them, I shall appear to stand in a condition of helplessness equal to that of all my predecessors whose conflicting opinions I have cited. These eminent men have drawn their conclusions, each from his individual consciousness, or from observing human actions, without having the means of arriving at a knowledge of the fundamental faculties of the mind itself. They have, as it were, seen men commit gluttony and drunkenness ; and, in ignorance of the functions of the stomach, have set down these vices as original tendencies of human nature, instead of viewing them as abuses merely of an indispensable appetite. Without phrenology I should find no resting-place for the soles of my feet ; and I at once declare, that, without its aid, I should as soon have attempted to discover the perpetual motion, as to throw any light, by the aid of reason alone, on the foundations of moral science. The ground of this opinion, I have already stated. Unless we are agreed concerning what the natural constitution of the mind *is*, we have no means of judging of the duties which that constitution prescribes. Once for all, therefore, I beg permission to assume the great principles and leading doctrines of phrenology to be true ; and I

shall now proceed to show you in what manner I apply them to unravel the Gordian knot of Ethics, which at present appears so straitly drawn and so deeply entangled. I do not despair of revealing to your understandings principles and relations, resembling, in their order, beauty, and wisdom, the works of the Deity in other departments of nature.

First, then, in regard to the possibility of moral philosophy existing as a natural science. Dr. Wardlaw speaks of the human mind as of a watch that has the tendency to go backward, or fitfully backward and forward; as having its mainspring broken; and as having all the parts of the mechanism worked by an antagonist power. This description might appear to be sound to persons who, without great analytic powers of mind, resorted to no standard except the dark pages of history, by which to test its truth: but the Phrenologist appeals at once to the brain, which is the organ of the mental faculties. Assuming that it is the organ of the mind, I ask, Who created it? Who endowed it with its functions? Only one answer can be given—It was God. When, therefore, we study the mental organs and their functions, we go directly to the fountain-head of true knowledge regarding the natural qualities of the human mind. Whatever we shall ascertain to be written in them, is doctrine imprinted by the finger of God himself. If we are certain that those organs were constituted by the Creator, we may rest assured that they have all a legitimate sphere of action. Our first step is to discover this sphere, and to draw a broad line of distinction between it and the sphere of their abuses; and here the superiority of our method over that of philosophers who studied only their own consciousness and the *actions* of men, becomes apparent. They confounded abuses with uses; and because man is liable to abuse his faculties, they drew the conclusion, prematurely and unwarrantably, that his whole nature is in itself evil. Individual men may err in attempting to discover the functions and legitimate spheres of action of the mental organs, and dispute about the conclusions thence o be drawn; but this imputes no spuriousness to the organs themselves, and casts no suspicion on the principle that they *must* have legitimate modes of *manifestation*. There they stand; and they are as undoubtedly the workmanship of the Creator, as the sun, the planets, or the entire universe itself. Error may be corrected by more

accurate observations; and whenever we interpret the constitution aright, we shal assuredly be in possession of divine truth.

Dr. Wardlaw might as reasonably urge the disorder of human nature as an argument against the possibility of studying the science of optics, as against that of cultivating ethical philosophy. Optics is founded on the structure, functions, and relations of the eye; and ethics on the structure, functions, and relations of the mental organs. Against optics he might argue thus:—"The eye is no longer such as it was when it proceeded from the hands of the Creator; it is now liable to blindness; or if, in some more favoured individuals, the disorder of its condition does not proceed so far as to produce this dire effect, yet universal experience proves that human nature now labours under opaque eyes, squinting eyes, long-sighted eyes, and short-sighted eyes; and that many individuals have only one eye. The external world also is no longer what it originally was. There are mists which obscure the rays of light, clouds which intercept them, air and water which refract them; and almost every object in creation reflects them. Look at a straight rod half plunged into water, and you will see it crooked. Can a science founded on such organs, which operate in such a medium, and are related to such objects, be admitted into the class of ascertained truths, by which men are to regulate their conduct?" He might continue, "Astronomy, with all its pompous revelations of countless suns, attended by innumerable worlds rolling through space, must also be laid in the dust, and become a fallen monument of human pride and mental delusion. It is the offspring of this spurious science of optics. It pretends to record discoveries effected in infinite space by means of these perverted human eyes, acting through the dense and refracting damps of midnight air. Away with such gross impositions on the human understanding! Away with all human science, falsely so called!"

There would be as much truth in an argument like this, as in that urged by Dr. Wardlaw against moral philosophy, founded on the study of nature. The answer to these objections against optics as a science, is, that the constitution, functions, and relations of the eye have been appointed by the Creator; that, although some unsound eyes exist, yet we have received judgment to enable us to discriminate

between sound eyes, and diseased or imperfect eyes. Again, we admit that mists occasionally present themselves; but we ascertain the laws of light by observations made at times when these are absent. Certain media also unquestionably refract the luminous rays; but they do so regularly, and their effects can be ascertained and allowed for. When, therefore, we observe objects by means of sound eyes, and use them in the most favourable circumstances, the knowledge which we derive from them is worthy of our acceptance as truth.

The parallel holds good, in regard to the mind, to a much greater extent than many persons probably imagine. The Creator has fashioned all the organs of the human mind, conferred on them their functions, and appointed to them their relations. We meet with some individuals, in whom the organs of the selfish propensities are too large, and the moral organs deficient: these are the morally blind. We see individuals who, with moderate organs of the propensities, have received large organs of Benevolence and Veneration, but deficient organs of Conscientiousness: these have a moral squint. But we meet also with innumerable persons in whom the organs of the propensities are moderate, and the moral and intellectual organs well developed; who thereby enjoy the natural elements of a sound moral vision; and who need only culture and information to lead them to moral truths, as sound, certain, and applicable to practice, as the conclusions of the optician himself. Revelation necessarily supposes in man a capacity of comprehending and profiting by its communications; and Dr. Wardlaw's argument appears to me to strike as directly at the root of man's capacity to understand and interpret Scripture, as to understand and interpret the works and natural institutions of the Creator.

Dr. Wardlaw, we have seen, discards natural ethics entirely, and insists that Scripture is our only guide in morals. Archbishop Whately, on the other hand, who is not less eminent as a theologian and certainly more distinguished as a philosopher than Dr. Wardlaw, assures us that "God has *not revealed to us a system of morality such as would have been needed for a being who had no other means of distinguishing right and wrong*. On the contrary, the inculcation of virtue and reprobation of vice in Scripture, are in such a tone as *seem to presuppose a natural power*.

or a capacity for acquiring the power to distinguish them. And if a man, denying or renouncing all claims of natural conscience, should practise, without scruple, everything he did not find expressly forbidden in Scripture, and think himself not bound to do anything that is not there expressly enjoined, exclaiming at every turn—

'Is it so nominated in the bond?'

he would be leading a life very unlike what a Christian's should be."

In my humble opinion, it is only an erroneous view of human nature, on the one side or the other, that can lead to such contradictory opinions as these. I agree with Archbishop Whately.

By observing the organs of the mind, then, and the mental powers connected with them, phrenologists perceive that three great classes of faculties have been bestowed on man.

1. Animal Propensities.
2. Moral Sentiments.
3. Intellectual Faculties.

Considering these in detail, as I have done in my previous courses, and in my System of Phrenology, and as I now assume that all of you have done, we do not find one of them that man has made, or could have made, himself. Man can create nothing. Can we fashion for ourselves a new sense, or add a new organ, a third eye for instance, to those we already possess? Impossible. All those organs, therefore, are the gifts of the Creator; and in speaking of them as such, I am bound to treat them with the same reverence that should be paid to any of his other works. Where, then, I ask, do we, in contemplating the organs, find the evidence of the mainspring being broken? Where do we find the antagonist power, which works all the mechanism contrary to the original design? Has it an organ? I cannot answer these questions: I am unable to discover either the broken mainspring, or an organ for the antagonist power. I see, and feel—as who does not?—the crimes, the errors, the miseries of human beings, to which Dr. Wardlaw refers as proofs of the disorder of which he speaks; but phrenology gives a widely different account of their origin. We observe, for example, that individual men commit murder or blasphemy, and we all acknowledge that this is in opposition to virtue; but we do not find an

organ of murder, or an organ whose office it is to antagonize all the moral faculties, and to commit blasphemy. We perceive that men are guilty of gluttony and drunkenness; but we nowhere find organs instituted whose function is to commit these immoralities. All that we discover is, that man has been created an organized being; that, as such, he needs food for nourishment; that, in conformity with this constitution, he has received a stomach calculated to digest the flesh of animals and to convert it into aliment: and that he sometimes abuses the functions of the stomach: and when he does so, we call this abuse gluttony and drunkenness. We observe farther, that in aid of his stomach, he has received carnivorous teeth; and in order to complete the system of arrangements, he has received a propensity having a specific organ, prompting him to kill animals that he may eat them. In accordance with these endowments, animals to be killed and eaten are presented to him in abundance by the Creator. A man may abuse this propensity and kill animals for the pleasure of putting them to death—this is cruelty; or he may go a step farther—he may wantonly, under the instigation of the same propensity, kill his fellow-men, and this is murder. But this is a widely different view of human nature from that which supposes it to be endowed with positively vicious and perverse propensities—with machinery having a tendency only to go backward, or to go alternately and fitfully backward and forward. Those individuals, then, who commit murder, abuse their faculty of Destructiveness by directing it against their fellow-men. We have *evidence* of this fact: The organ is found large in those who have a tendency so to abuse it, and in them, in general, the moral organs are deficient.

Again, it is unquestionable that men steal, cheat, lie, blaspheme, and commit many other crimes; but we in vain look in the brain for organs destined to perpetrate these offences, or for an organ of a power antagonist to virtue, and whose proper office is to commit crimes in general. We discover organs of Acquisitiveness, which have legitimate objects, but which, being abused, lead to theft; organs of Secretiveness, which have a highly useful sphere of activity, but which, in like manner, when abused, lead to falsehood and deceit; and so with other organs.

These organs, I repeat, are the direct gifts of the Creator;

and if the mere fact of their existence be not sufficient evidence of this proposition, we may find overwhelming proof in its favour by studying their relations to external nature. Those who deny that the human mind is constitutionally the same now as it was when it emanated from the hand of the Creator, generally admit that external nature at least is the direct workmanship of the Deity. They do not say that man, in corrupting his own dispositions, altered the whole fabric of the universe—that he infused into animals new instincts, or imposed on the vegetable kingdom a new constitution and different laws. They admit that God created all these such as they exist. Now, in surveying vegetable organization, we perceive production from an embryo—sustenance by food—growth, maturity, decay, and death—woven into the very fabric of their existence. In surveying the animal creation, we discover the same phenomena and the same results: and on turning to ourselves, we find that we too are organized, that we assimilate food, that we grow, that we attain maturity, and that our bodies die. Here, then, there is an institution by the Creator, of great systems (vegetable and animal) of production, growth, decay, and death. It will not be doubted that these institutions owe their existence to the Divine will.

If it be asserted that men's delinquencies offended the Deity, and brought his wrath on the offenders; and that the present constitution of the world is the consequence of that displeasure; philosophy offers no answer to this proposition. She does not inquire into the *motives* which induced the Creator to constitute the world, physical and mental, such as we see it; but, in pointing to the existence and constitution of vegetables, of animals, and of man, she respectfully maintains that all these God *did* constitute and endow with their properties and relationships; and that in studying them we are investigating his genuine workmanship.

Now, if we find on the one hand a system of decay and death in external nature, animate and inanimate, we find also in man a faculty of Destructiveness which is pleased with destruction, and which places him in harmony with that order of creation: if we find on the one hand an external world, in which there exist—fire calculated to destroy life by burning, water by drowning, and cold by freezing—ponderous and moving bodies capable of injuring us by blows, and a great power of gravitation exposing us to danger by falling;

we discover also, in surveying our own mental constitution, a faculty of Cautiousness, whose office it is to prompt us to take care, and to avoid these sources of danger. In other words, we see an external economy admirably adapted to our internal economy ; and hence we receive an irresistible conviction that the one of these arrangements had been designedly framed in relation to the other. External destruction is related to our internal faculty of Destructiveness ; external danger to our internal faculty of Cautiousness.

I have frequently remarked that one of the most striking proofs of the existence of a Deity, appears to me to be obtained by surveying the roots of a tree, and its relationship to the earth. These are admirably adapted ; and my argument is this :—The earth is a body which knows neither its own existence nor the existence of the tree : the tree, also, knows neither its own qualities nor those of the earth. Yet the adaptation of the one to the other is a real and useful relation, which we, as intelligent beings, see and comprehend. That adaptation could not exist, unless a mind had conceived, executed, and established it ; the mind that did so is not of this world ; therefore, a Deity who *is* that mind, exists, and every time we look on this adaptation we see His power and wisdom directly revealed to us. The same argument applies, and with equal force, to the mental faculties and external nature. We see natural objects threatening us with danger, and we find in ourselves a faculty prompting us to take care of our own safety. This adaptation is assuredly divine ; but you will observe that if the adaptation be divine, the things adapted must also be divine : the external world threatening danger must have been deliberately constituted such as it is ; and the human mind must have been deliberately constituted such as it is ; otherwise this adaptation could not exist.

Again, we find that the human body needs both food and raiment, and on surveying the external world we discover that in a great portion of the earth there are winter's barren frosts and snows. But in examining the human mind, we find a faculty of Constructiveness, prompting and enabling us to fabricate clothing ; and Acquisitiveness, prompting us to acquire and store up articles fitted for our sustenance and accommodation, so as to place us in comfort when the chill winds blow and the ground yields us no support. We discover also, that nature presents us with numberless raw

materials, fitted to be worked up, by means of our faculties, into the very commodities of which our bodies stand in need. All these gifts and arrangements, I repeat, are assuredly of divine institution; and divine wisdom, goodness, and power, are conspicuously displayed in them all. But you will observe that individual men, by abusing the faculty of Constructiveness, oftentimes commit forgeries, pick locks, and perpetrate other crimes; and that by abusing Acquisitiveness they steal.

Here, then, is a wide difference between Dr. Wardlaw's views and mine, in regard to human nature. His broken mainspring and antagonist power are nowhere to be met with in all the records of philosophy; while the crimes which he ascribes to it are accounted for by abuses of organs clearly instituted by the Creator, having legitimate spheres of action, and wisely adapted to a world obviously arranged by Him in relation to them.

Dr. Wardlaw appears to have studied human nature chiefly in the actions of men, and he has not distinguished between the faculties bestowed by the Creator, and the abuses of them, for which individual delinquents alone are answerable.

If these views be well founded, moral philosophy, as a scientific study, becomes not only possible, but exceedingly interesting and profitable. Its objects are evidently to trace the nature and legitimate sphere of action of all our faculties, and their relation to the external world, with the conviction that to use them properly is virtue, to abuse them is vice.

These principles, if sound, enable us to account for the barren condition of moral philosophy, as a science.

The numerous errors, the confusion and contradiction of previous moralists, are to be ascribed to their having no stable philosophy of mind. They possessed no knowledge of the organs of the mind, and no sufficient means of discriminating between what was natural and what incidental in human conduct. Sir James Mackintosh remarks, that "there must be primary pleasures, pains, and even appetites, which arise from no prior state of mind, and which, if explained at all, can be derived only from *bodily organization;* for," says he, "if there were not, there could be no *secondary* desires. What the number of the underived principles may be, is a question to which the answers of philosophers have be

extremely various, and of which the consideration is not necessary to our present purpose. The rules of philosophizing, however, require that causes should not be multiplied without necessity."

With all deference to Sir James Mackintosh's authority, I conceive that the determination of "the number of the underived principles" of mind, is the first step in all sound mental science, and especially in ethics; and when he admits that these "can be derived only from bodily organization," it is unphilosophical in him to add, "that the rules of philosophizing require that causes should not be multiplied without necessity." Who would think of attempting either to multiply or diminish senses, feelings, or intellectual powers depending on "bodily organization," unless he could multiply and diminish, make and unmake, corresponding bodily organs at the same time?

In my System of Phrenology I have presented you with a view of the underived faculties of mind, connected with specific organs, in so far as these have been ascertained I have endeavoured to point out the sphere of action of each, and to explain the effects of size in the organs on the power of manifesting the faculties. These points being assumed, an intelligible foundation is laid for ethical science. Bearing in mind the three great divisions of the human faculties into Animal Propensities, Moral Sentiments, and Intellectual Powers, let us attend to Bishop Butler's exposition of the groundwork of moral philosophy.

Bishop Butler, in the preface to his Sermons, says, "It is from considering the relations which the several appetites and passions in the inward frame have to each other, and, above all, the supremacy of reflection or conscience, that we get the idea of the system or constitution of human nature. And from the idea itself it will as fully appear, that this our nature, *i. e.*, constitution, is adapted to virtue, as from the idea of a watch it appears that its nature, *i. e.*, constitution or system, is adapted to measure time.

"Mankind has various instincts and principles of action, as brute creatures have; some leading most directly and immediately to the good of the community, and some most directly to private good.

"Man has several which brutes have not; particularly reflection or conscience, an approbation of some principles or actions, and disapprobation of others.

"Brutes obey their instincts or principles of action according to certain rules; suppose the constitution of their body, and the objects around them.

"The generality of mankind also obey their instincts and principles, one and all of them; those propensions we call good, as well as the bad, according to the same rules, namely, the constitution of their body, and the external circumstances which they are in.

"Brutes, in acting according to the rules before-mentioned, their bodily constitution and circumstances, act suitably to *their whole nature.*

"Mankind also, in acting thus, would act suitably to their whole nature, if no more were to be said of man's nature than what has been now said; if that, as it is a true, were also a complete, adequate account of our nature.

"But that is not a complete account of man's nature. Somewhat farther must be brought in to give us an adequate notion of it; namely, *that one of those principles of action, conscience, or reflection,* compared with the rest, as they all stand together in the nature of man, *plainly bears upon it marks of authority over all the rest, and claims the absolute direction of them all,* to allow or forbid their gratification: a disapprobation of reflection being in itself a principle manifestly superior to a mere propension. And the conclusion is, that to allow no more to this superior principle or part of our nature, than to other parts; to let it govern and guide only occasionally in common with the rest, as its turn happens to come, from the temper and circumstances one happens to be in; *this is not to act conformably to the constitution of man:* neither can any human creature be said to act conformably to his constitution of nature, unless he allows to that superior principle the absolute authority which is due to it."—(Butler's Works, vol. ii. Preface.)

I agree with Butler in thinking that certain of our faculties are intended to rule, and others to obey; and that the belief that it is so, is intuitive in well-constituted minds.

According to phrenology, the intellectual faculties perceive objects that exist, with their qualities, phenomena, and relations; but they do not feel specific emotions. The organs of intellect lie in the anterior lobe of the brain. In the coronal region there are organs which manifest emotions or feelings, called the moral sentiments, viz., Benevolence.

Veneration, and Conscientiousness. The power in any individual of experiencing each of these emotions bears a relation to the size of its own organs. These emotions are felt to have a commanding authority conferred on them, so that whatever actions they denounce as disagreeable to them, are felt to be wrong, and whatever actions they feel to be agreeable, are pronounced to be right; and we can give no other account of this order of our nature, except that it has pleased God so to constitute us.

In applying these principles to our present subject, I observe that the organ of Philoprogenitiveness, for example, exists, and that its function is to produce the love of children. This love carried into action may produce a variety of effects. It may prompt us to gratify every desire of the child, however fantastic, if the indulgence will give it pleasure for a moment; but when the intellect is employed to trace the consequences of this gratification, and sees that it is injurious to the health, the temper, the moral dispositions, and the general happiness of the infant, then Benevolence disapproves of that mode of treatment, because it leads to suffering, which Benevolence dislikes; Conscientiousness disapproves of it, because it is unjust to the child to misdirect its inclinations through ignorant fondness; and Veneration is offended by it, because our duty to God requires that we should improve all his gifts to the best advantage, and not prepare an infant for crime and misery, by cultivating habits of reckless self-indulgence, regardless of all ultimate results. If, in any individual mother, Philoprogenitiveness exists very large, in combination with weak organs of the moral sentiments and intellect, she may abuse this beautiful instinct by pampering and spoiling her children; but it is an error to charge the conduct of an ill-constituted, and perhaps an ill-informed individual mind, against human nature in general, as if all its faculties were so perverted that they could manifest themselves only in abuses. My object will be to expound the courses of action to which we are prompted by all our faculties, and to subject them to the review of the intellect and moral sentiments acting in combination; and I shall admit all actions to be virtuous or right which are approved of by these combined powers, and treat all as vicious or wrong which are disavowed by them; and my doctrine is, that *it is accordance with the dictates of these combined faculties which constitutes certain actions*

virtuous, and discordance with them which constitutes other actions vicious.

We are now able to understand the origin of the various theories of the foundation of virtue to which I alluded at the commencement of this lecture, and which have been the themes of so much discussion among philosophers. Most of the authors whom I have quoted recognise one of these three great foundations of virtue: According to them, 1st, All actions are virtuous which tend to promote the happiness of sentient and intelligent beings, and they are virtuous because they possess this tendency; 2dly, All actions are virtuous which are conformable to the will of God, and they are so for this reason, and no other; 3dly, All actions are virtuous which are in conformity with the dictates of our moral sense or moral faculty, which conformity is the sole characteristic of virtue. The partisans of each of these foundations of virtue have denied the reality or sufficiency of the other foundations. These differences of opinion may be thus accounted for.

The sentiment of Benevolence desires universal happiness, or the general good of all beings. When we wantonly sacrifice the happiness of any being, *it* is pained, and produces uneasy emotions in our minds. Those philosophers who place the foundation of virtue in the tendency of the action judged of, to produce happiness, are right, in so far, because this is one foundation, but they are wrong in so far as they teach that it is the only foundation of virtue.

In like manner the organ of Veneration desires to yield obedience to the will God, and it experiences painful emotions when we knowingly contravene its dictates. Those philosophers who place the essence of virtue in obedience to the will of God, are sound in their judgment, in so far as this is one essential foundation of virtue, but they err in so far as they represent it to be the only one.

And, thirdly, Conscientiousness produces the feelings of duty, obligation, and incumbency. It desires to do justice in all things. It enforces the dictates of our other moral faculties. Benevolence, for instance, from its own constitution, desires to communicate happiness, and Conscientiousness enforces its dictates by proclaiming that it is our duty to act in conformity with them. It causes us to feel that we are guilty or criminal if we wantonly destroy or impair the enjoyment of any being. It enforces also the

aspirations of Veneration, and tells us that we are guilty if we disobey the will of God. Farther, its own special function is to enforce justice, when our own rights or feelings, and those of other men, come into competition. Those philosophers who founded virtue in a moral sense, were right in so far as this faculty is one most important foundation of virtue; but it is not the only one.

Each of the moral sentiments produces the feeling of right and wrong in its own sphere; Benevolence proclaims cruelty to be wrong, and Veneration condemns profanity: But each is liable to err when it acts singly. There are men, for example, in whom Benevolence is very strong, and Conscientiousness very weak, and who, following the dictates of the former, without reference to those of the latter sentiment, often perpetrate great wrongs by indulging in an extravagant generosity at the expense of others. They are generous before they are just. Charles Surface, in the School for Scandal, is the personification of such a character. Veneration acting singly, is liable to sanction superstitious observances; or acting in combination with Destructiveness, without Benevolence and Conscientiousness, it may approve of cruel persecution for the sake of preserving the purity of the faith which it has embraced. I consider the virtue of an action to consist in its being in harmony with the dictates of *enlightened intellect and of all the moral faculties acting in combination.*

The moral faculties often do act singly, and while they keep within the limits of their virtuous sphere, the dictates of all of them harmonize. We have a similar example in music. Melody and time both enter into the constitution of music, but we may have time without melody, as in beating a drum; or melody without time, as in the sounds of an Æolian harp. But the two faculties which take cognizance of melody and time are constituted so as to be capable of acting in harmony, when they are both applied to the same object. So it is in regard to the moral sentiments. If a man fall into the sea, another individual, having a large organ of Benevolence, and who can swim, may be prompted by the instinctive impulse of benevolence, instantly to leap into the water and save him; without, in the least, thinking of the will of God, or the obligations of duty. But when we calmly contemplate the action, we perceive it to be one falling without the legitimate sphere of Benevolence

It is approved of by enlightened intellect, and is also conformable at once to the divine will, and to the dictates of Conscientiousness. In like manner every action that is truly conformable to the will of God, or agreeable to Veneration, when acting within its proper sphere, will be found just and beneficial in its consequences, or in harmony also with Conscientiousness and Benevolence. And every just and right action will be discovered to be beneficial in its consequences, and also in harmony with the will of God.

When one of these faculties acts independently of the other, it does not *necessarily* err, but it is more liable to do so, than when all operate in concert. This is the reason that any theory of morals, founded on only one of them, is generally imperfect or unsound.

The idea of resolving morality into intellectual perceptions of utility, into obedience to the will of God, or into any other single principle, has arisen, probably, from the organ of the mental faculty on which that one principle depends having been largest in the brain of the author of the theory, in consequence of which he felt most strongly the particular emotion which he selected as its foundation. Those individuals, again, who deny that there is *any natural* basis for moral science, and who regard the Bible as the only foundation of moral and religious duty, are generally deficient in the organs either of Conscientiousness or Benevolence; or of both; and because *they* feebly experience the dictates of a natural conscience, they draw the inference that it is the same with all mankind.

Another question remains—What means do we possess for discovering *the qualities of actions*, so that our moral faculties may give emotions of approval or disapproval upon sound data? For example—Veneration disposes us to obey the will of God, but how shall we discover what the will of God is? It is the office of the intellect to do so. For instance—A young lady from England had been taught from her infancy that God had commanded her to keep Good Friday holy, and sacred to religious duties. When she came to Scotland for the first time, and saw no sanctity attached to that day, her Veneration was disagreeably affected; and if she also had treated the day with indifference, her conscience would have upbraided her. In a few weeks afterward, the half-yearly fast day of the church of Scotland came round, and she felt no sanctity whatever to be attached to it: her intellect had never been informed that

either God or the church had appointed that day to be held sacred; she desired to follow her usual occupations, and was astonished at the rigid sanctity with which the day was kept by the Scots. Here the intellect gave the information, and Veneration acted according to its lights.

The intellect must be employed, therefore, to discover all the motives, relations, and consequences of the actions to be judged of, and the moral sentiments will give emotions of approval or disapproval, according to their aspect thus presented to them. In many ordinary cases no difficulty in judging occurs; for instance, the mere perception of a fellow-creature struggling in the water is sufficient to rouse Benevolence, and to inspire us with the desire to save him. But when the question is put, Is an hospital for foundling children benevolent?—if we look only at one result, (saving the lives of individual children,) we would say that it is; but if the intellect observe *all* the consequences; for instance, first, the temptation to vice afforded by provision being made for illegitimate children; secondly, the mortality of the infants, which is enormous, from their being withdrawn from maternal care and intrusted to mere hireling keepers; thirdly, the isolation of the children, so reared, from all kindred relationship with the rest of the race; and, fourthly, the expense which is thrown away in this very questionable arrangement: I say, after the intellect has discovered and contemplated all these facts and results, the sentiment of Benevolence would not be gratified with foundling hospitals, but would desire to apply the funds dedicated to them to more purely beneficent institutions. Without intellect, therefore, the sentiments have not knowledge; and without moral sentiments, the intellect sees merely facts and results, but feels no emotions.

If, then, this theory of our moral constitution be well founded, it explains the darkness and confusion of the opinions entertained by previous philosophers on the subject.

Dr. Wardlaw's antagonist power is merely the animal propensities acting with undue energy, and breaking the bounds prescribed to them by the moral sentiments and intellect. They will be most liable to do this, in those individuals in whom the organs of the propensities are large, and those of the moral sentiments deficient; but there is no organ or faculty in itself immoral, or necessarily opposed to the moral sentiments, as Dr Wardlaw supposes.

To be able, then, to discover what courses of action are

at once beneficial in their tendency, agreeable to the will of God, and conformable to the dictates of Conscientiousness, we must use our intellectual faculties in examining nature Believing that man and the external world are both the workmanship of the Creator, I propose, in the following lectures, to consider—

1st, The constitution of man as an *individual;* and endeavour to discover what duties are prescribed to him by its qualities and objects.

2dly, I shall consider man as a *domestic being*, and endeavour to discover the duties prescribed to him by his constitution, as a husband, a father, and a child.

3dly, I shall consider man as a *social being*, and discuss the duties arising from his social qualities. This will involve the principles of government and political economy.

4thly, I shall consider man as a *religious being*, and discuss the duties which he owes to God, so far as these are discoverable from the light of nature.

LECTURE II.

ON THE SANCTIONS BY WHICH THE NATURAL LAWS OF MORALITY ARE SUPPORTED.

Every law supposes a Lawgiver, and punishment annexed to transgression—God prescribes certain actions by our constitution, and He is therefore the Lawgiver—He supports his laws by rewards and punishments—Does He do so by special acts of providence?—Or are his rewards and punishments certain consequences of good or evil, appointed by Him to follow from our actions?—It is important to show that God dispenses justice in this world; because we know no other, and if He be not just here, there is no natural and logical ground for inferring that He will be just in any other world —Evidence that He does dispense justice here—His supposed injustice is apparent only—Philosophers have not understood the principles of His government--The independent action of the several natural laws is the key to it--If we *obey* the physical laws, they reward us with physical advantages--If we obey the organic laws, they reward us with health—If we obey the moral laws, they reward us with mental joy--If we *disobey* any one of these laws, we are punished under it, although we observe all the others—There is more order and justice in the Divine Government in this world than is generally recognised.

In my last lecture I endeavoured to point out the foundations on which Moral Philosophy, inferred from the consti-

tution of nature, rests. The mental organs and faculties being the gift of God, each must have a legitimate use and sphere of activity, though doubtless liable to be abused; and the rule for discriminating between uses and abuses is, that every act is morally *right* which is approved of by the moral sentiments of Benevolence, Conscientiousness, and Veneration, operating along with enlightened intellect, while all actions disapproved of by these faculties are *wrong*. Such is the *internal* guide to morality with which man has been furnished.

The next inquiry is, Whether the judgments of our moral and intellectual faculties are supported by any *external* authority in nature? Every law supposes a lawgiver, and punishment annexed to transgression. Certain courses of action being prescribed and forbidden by the very constitution of our faculties, God, who made these and their organs, is consequently the Lawgiver: but the question remains—Has he used any means to give sanction, *in this world*, to his commands revealed to us in nature? All are agreed that rewards and punishments have been established by God; but as to the *extent*, *manner*, and *time* of dispensing them, very different opinions exist. By some it is conceived that God, like the human magistrate, watches the infringement of his laws in each particular instance, and applies punishment accordingly; but that neither his punishments nor his rewards are the *natural* effects of the conduct to which they have reference. Such is the view of the ways of Providence imbodied in Parnell's "Hermit;" and many of us may recollect the pleasure with which we perused that representation in our youth, and the regret which we felt, that experience did not support the beautiful theory of the poet. A servant is described as having been thrown over a bridge by his companion, and drowned, which event at first shocks our Benevolence; but we are then told that the servant intended that evening to murder a kind and indulgent master, and that his companion was an angel sent by God to prevent, and also to punish him for his intended crime. Another scene represents an hospitable rich man's son dying apparently of convulsions; but we are told that it was an angel sent by God who suffocated him, unseen by the parents, to snatch him away from them, because their affections doated too fondly on him, and led them to forget their duty to heaven.

These representations, of course, are fiction; but it is

not difficult to trace notions of an essentially similar character, existing in the minds of many serious persons, and constituting their theory of the divine government of the world. The grand feature of this system is, that the punishment does not follow from the offence by any natural bond of connexion, but is administered separately and directly by a special interposition of Providence. The servant's wicked design had no natural connexion with his falling over the bridge; and the neglect of heaven, by the parents of the child, had no such natural relation to its physiological condition, that it should have been cut off in consequence of that sin. There are, as I have said, some religious persons who really entertain notions similar to these; who believe that God, by special acts of providence, or particular manifestations of His power, rewards and punishes men's actions in a manner not connected, by any natural link of cause and effect, with their offences; or, at least, so remotely connected that the link is not discernible by human sagacity. They conceive that this view imparts to the divine government a sublime mysteriousness, which renders it more imposing, solemn, and awful, and better calculated than any other to enforce obedience on men. To me, on the contrary, it appears to be erroneous, and to be a great fountain of superstition, at once derogatory to the dignity of the Divine Ruler, and injurious to the moral, intellectual, and religious character of His subjects. I shall, in a subsequent part of this lecture, state the reasons of this opinion.

Another opinion entertained regarding the moral government of the world is, that God has revealed in the Scriptures every duty which He requires us to perform, and every action which He forbids us to do; that He leaves us at full liberty, in this life, to obey or disobey these commands, as we please; but that in the world to come He will call us to account, and punish us for our sins, or reward us for obedience. There are strong objections to this theory. Religious persons will at once recognise that the instruction communicated to man in the Scriptures may be classed under two great heads. The first class embraces events that occurred before the existing state of nature commenced, (such as the transactions in Paradise before the fall,) also events that transcend nature, (such as the resurrection of Jesus Christ,) and events that are destined to occur when nature shall be no more, (such as the final judg-

ment;) together with certain duties (such as belief or faith) which are founded on these communications. In regard to all of these, science and philosophy are silent, and the Bible is the only rule and direction that is possessed. The second head has reference to the practical conduct which man is bound to pursue with regard to the beings in the present world. The first objection, then, to the theory of the divine government last-mentioned, is, that the Bible, however complete with respect to the former department of instruction, really does not contain a full revelation of man's secular duties.

In the last lecture I quoted a striking passage to this effect from Archbishop Whately. The Scriptures assume that man will use the intellect and moral faculties which have been bestowed on him, to discover and perform many duties relative to this life, which they have not fully unfolded. It is a very important duty to manage aright the physical education, as also the moral and intellectual training, of children; and yet the Bible contains no specific rules for discharging these duties. It tells us to train up a child in the way he should go, and that when he is old he will not depart from it; but it does not describe, with practical minuteness, *what that way is*. If it does so, every incompetent schoolmaster, and every ignorant mother who injures her children through lack of knowledge, must have sadly neglected the study of the Bible. But even the most pious and assiduous students of Scripture differ greatly among themselves in regard to the training of their children; so that the Bible must be either silent, or very obscure on this point. How many thousands of Christian parents neglect the physical education of their children altogether, and in consequence either lose them by death, or render them victims of disease! Again, each sect instructs its children in its own tenets, and calls this the way in which they should go: yet, when we observe the discord and animosity that prevail among these children when they become men and women; when we see the Protestant denouncing the Catholic as in error, the Catholic excommunicating the Protestant as a heretic, the Trinitarian designating the Unitarian as an infidel, and the Unitarian condemning the Trinitarian as superstitious; we have proof, certainly, that the children, when old, *do not* depart from the way in which they have been trained: but we likewise see, that it is im

possible that *all* of them can have been trained in the *right* way, since otherwise there could not be such wide differences and so much hostility between them. I can discover, therefore, in the Bible no complete code of secular duties, as this system assumes that there is. In my work on the "Constitution of Man," I have endeavoured to show that God intended that we should employ our mental faculties in studying His works, and by this means fill up the chapter of our secular duties, left incomplete in the Bible.

A second objection to the theory in question is, that it essentially implies that God exercises very little temporal authority in the government of this world, reserving his punishments and rewards chiefly for a future life. One cause of this view seems to be, that most of the teachers of morals and religion have confined their attention to moral and religious duties, and often to their own peculiar and erroneous interpretation of these duties, instead of taking a comprehensive survey of human nature and of *all* the duties inscribed on its constitution. They have regarded life as monks do—not practically. They observed that sometimes a man who believed and acted according to their notions of sound religion and sterling virtue, fell into worldly misfortune, lost his children prematurely by death, or was himself afflicted with bad health; while other men, who believed and acted in opposition to their notions of right, flourished in *health and wealth*, and possessed a vigorous offspring; and they hence concluded that God has left the virtuous man to suffer here, for his probation, intending to reward him hereafter; and the wicked to prosper, with the view of aggravating his guilt and increasing the severity of his future punishment. They have rarely attempted to reconcile these apparent anomalies to reason, or to bring them within the scope of a just government on earth. It humbly appears to me that God does exercise a very striking and efficient jurisdiction over this world, and that it is chiefly our own ignorance of the manner in which he does so, that renders us blind to its existence and effects.

It is of the greatest importance to establish the reality and efficiency of the divine government in this world; because a plausible argument has been reared on the contrary doctrine, and it has been maintained that there can be *no* reward and punishment *at all*, if they are not administered in this life. The line of reasoning by which this view is

supported is as follows: We can judge of God, it is said only from his works. His works in this world are all that we are acquainted with. If, therefore, in our experience, in this life, we find that virtue goes unrewarded, and that vice triumphs, the legitimate inference is that it will always be so. Bishop Butler, indeed, in his celebrated "Analogy," has argued that, *because* God has *not* executed complete justice here, he *must* intend to do so hereafter, as justice is one of his attributes; but Mr. Robert Forsyth, in his work on Moral Science, has stated the objection to this line of argument in strong terms. "If," says he, "God has created a world in which justice is not accomplished, by what analogy, or on what grounds, do we infer that any other world of his creation will be free from this imperfection?" Butler would answer, "Because justice is an attribute of the divine mind." The opponents, however, reply, "How do you know that it is so? We know the Deity only through His works; and if you concede that justice is not accomplished in their administration, the legitimate inference is that justice is *not* one of His attributes: at least the inference that it is one of them is not logical." I have heard this last argument stated, although I have not seen it printed.

It is of great importance to moral science to find a valid answer to these objections; and the most satisfactory to my mind would be one which showed that the Divine Ruler actually does execute justice here, and that therefore we are entitled to infer that he will be just also hereafter; and such, accordingly, is the argument which I respectfully propose to maintain. When we obtain the right clew to the plan of the moral government of the world, many perplexities will be found to disappear.

In order to understand the divine government, we must know our own nature, the nature of the things and beings around us, and the relations subsisting among them. We have received propensities and sentiments urging us to act; but they are blind impulses, and in this respect resemble the appetite for food. That appetite being active, we feel hunger and desire food; but unless we employ our intellectual faculties to find edible substances, and also to discriminate wholesome from unwholesome viands, we may either starve, or eat poison and die. We must, in like manner, employ our intellectual faculties to discover the means of

gratifying all our propensities and sentiments, and the most beneficial forms of doing so. To the lower animals reason has been denied, and they are impelled to act directly in a manner that is advantageous to them, without experience, and without any other guide than God's wisdom, operating, unknown to them, through the medium of their instincts. But to man is left a wider range of action. He has received knowing faculties to study external nature in its physical aspects, and reflecting intellect to study its active and passive powers and the relations of the whole to himself. Regularity of action has been impressed on nature, so that man should not be bewildered in his studies and perplexed in his conduct; the same causes, in similar circumstances, producing at all times the same effects.

It is this principle of order which leads us to a right understanding of the government of the world, and which fits it so admirably for being a school in which to exercise and improve all the faculties of man. Each object and being of nature, physical and animal, has received a definite constitution; and while the circumstances in which it is placed continue unchanged, it acts invariably according to the laws of that constitution. The supposed anomalies in the divine government are apparent only, and form no exception to the Creator's attribute of justice, when properly understood. The key to them is the separate action of the different departments of our own constitution and of external nature, or *the independent operation of the natural laws*. This doctrine is explained in the "Constitution of Man;" and I here introduce it as the grand basis of our future investigations. Viewing the world on this principle, we discover,

1st, That the *laws* which regulate the action of inanimate matter operate purely as *physical* influences, independently of the moral or religious character of those whom they affect. If six persons be travelling in a coach, and if it break down through insufficiency of the axle, or any similar cause, they will be projected against external objects according to the impetus communicated to their bodies by the previous motion of the vehicle, exactly as if they had been inanimate substances of the same texture and materials. Their vices or their virtues will not modify the physical influences that impel or resist them. The cause of the accident is simply physical imperfection in the vehicle, and not the displeasure of God against the individual men for their sins. If one break a leg, another an arm, a third his

neck, and a fourth escape unhurt, the difference of result is to be ascribed solely to the difference of the mechanical action of the coach on their bodies, according to their differences of size, weight, and position, or to difference in the objects against which they are projected; one falling against a stone, and another perhaps alighting on turf.

The whole calamity in such a case is to be viewed simply as a punishment for not attending to the physical laws; in other words, for neglecting to have a coach sufficiently strong; and it serves to render men who are in charge of coaches more attentive to this duty in future. The common sense of mankind has led them to recognise this principle in their laws; for in most civilized countries the proprietors of public conveyances are held answerable for damage occasioned by their insufficiency. It is recognised also in Scripture. "Think not," says Christ, "that those on whom the Tower of Siloam fell were sinners above all Israel." In other words, the Tower of Siloam, like all other edifices, stood, in the virtue of the law of gravitation, as long as its foundations were sound and its superstructure firm; and it fell when one or other of these gave way, without the least reference to the persons who were below it. The fall would have occurred equally, whenever these causes operated, whether any human beings had been under it or not, and also independently of the moral and religious qualities of these beings.

If in the coach a profligate had been saved, and a valuable Christian killed, some persons would have wondered at the inscrutable ways of Providence: but both the bad and the good have received from the Creator organized bodies which require to be carefully protected from injury that they may live; and the real lesson taught by this calamity is, that no moral or religious qualities will be admitted as an excuse for not preserving the body from injury by observing the physical laws. If a soldier were to appear at parade with the touch-hole of his musket rusted up, and, when ordered into confinement for this breach of discipline, were to refer to the profound respect with which he always treated his officers, to the brilliant state in which he kept the barrel of his gun, and to the small, obscure nature of the touch-hole, which made it escape observation; the answer would be, that the object of his musket was to fire, and that a clear touch-hole was a primary and indispensable requisite to this end, the want of which could not be compensated for, or

supplied by respectful demeanour to his officer, by a brightly polished barrel, or by any other means whatever. A sound body is equally indispensable to Christian usefulness, as a clear touch-hole to a serviceable musket. I have elsewhere remarked, that if good men could sail in safety in unsound ships, or travel in dilapidated carriages, upborne by unseen ministers of heaven, on account of their holiness, the world would lapse into confusion; and these good men themselves would soon find nothing provided for them but the most deplorably crazy conveyances, into which sinners could not with safety set a foot.

The objection may naturally occur, that passengers have neither skill nor opportunity for judging of the soundness of ships and sufficiency of coaches, and that it is hard that they should suffer death and destruction from the carelessness or incapacity of others who let out these articles to hire, or employ them in the public service. I shall unfold the answer to this objection at a subsequent part of the course. It falls under the social law. We avail ourselves of the good qualities of our fellow-men, and we must suffer from their defects when, without due regard to their qualifications, we intrust our interests or safety to their care.

In so far, then, as pain, distress, and calamity, arise from the action of the physical laws, (which laws are numerous, and their operations extensive,) they ought to be viewed merely as punishments for not obeying these laws—punishments intended to stimulate us to greater attention in observing them in future. They forcibly tell us, that if we wish to live in safety, we must habitually exercise our understandings in accommodating our conduct to the agencies of the material objects around us. It seems irrational to suppose that God will hereafter reward good men for the sufferings which they bring upon themselves by neglecting to study and observe His own injunctions.

The next class of natural laws to which I solicit your attention, is the *organic*. The foundation of these laws is laid in the constitution of our organized frame, and in the relations established between it and the external world. Thus, the blood is necessary, in order to furnish every part of our body with nutriment. It replaces decayed particles carried off by the absorbent vessels, and also stimulates the brain and other organs so as to enable them to perform their functions aright. But to render the blood capable of doing

this, it must be supplied with chyle from the stomach and oxygen from the lungs; and hence a necessity arises for eating wholesome food and breathing pure air. The bones are composed of organized materials, and are supplied with certain vessels for their nutrition, and with others for the removal of their decayed particles; and all of these act regularly, as the mechanism of a plant acts. The same observations apply to the muscles, the skin, the bloodvessels, the brain, and all other portions of the body.

The point of doctrine which it is of importance for us to keep in view at present is, that growth and decay, health and disease, pleasure and pain, in any one or in all of these parts, take place according to fixed rules, which are impressed on the organs themselves, and that the organs act invariably, independently, and immutably, according to these rules. For instance—if we neglect exercise, the circulation of the blood becomes languid, and then the bones, muscles, nerves, and brain, are not properly nourished; the consequences of which are pain—loss of appetite, of strength, of mental vivacity and vigour—and a general feeling of unhappiness. If we labour too intensely with our minds, we exhaust our brains, impair digestion, and destroy sleep; we soon render our brains, which are the organs of the mind, incapable of action; and finally we are visited with lassitude, imbecility, palsy, apoplexy, or death. If we exercise our muscles too severely and too long, we expend an undue amount of the nervous energy of our bodies, and the brain becomes incapable of thinking and the nerves incapable of feeling, so that dulness and stupidity seize on our mental powers.

It is, therefore, an *organic law* of God, inscribed on our constitution, and thereby as clearly proclaimed to our understandings as if it were written with His finger upon tables of stone—That we shall consume a sufficiency of wholesome food, and breath unvitiated air. And however moral our conduct—however constant our attendance in the house of prayer—however benevolent our actions may be—yet, if we neglect this organic law, punishment will be inflicted. In like manner, if the laws of exercise be infringed—if, for instance, we overwork the brain—we are visited with punishment, whether the offence was committed in reclaiming the heathen, in healing the sick, in pursuing commerce, in gaming, or in ruling a state. If we overtask

the brain at all, it becomes exhausted, and its action is enfeebled; and as the efficiency of the mind depends on its proper condition, the mental powers suffer a corresponding obscuration and decay.

There is obvious reason in this arrangement also. If the brain were to flourish under excessive toil, in a good cause, and suffer under the same degree of exertion only in a bad one, the order of nature would be deranged. Good men would no longer be men; they might dispense with food, sleep, repose, and every other enjoyment which binds them to the general company of mankind. But according to the view which I am expounding, we are led to regard the constitution, modes of action, and relations of our organized system, as all instituted directly by the Creator; birth from organized parents, growth, decay, and death in old age, appear as inherent parts of our very frames, designedly allotted to us; while pain, disease, *premature* decay, and early death, appear, to a great extent, to be the consequences of not using our constitutions properly.

When, therefore, we see the children of good men snatched away by death in infancy or youth, we should ascribe this calamity to these children having inherited feebly organized bodies from their parents, or having, through ignorance or improper treatment, been led to infringe the organic laws in their modes of life. The object of their death seems to be to impress on the spectators the importance of attending to these laws, and to prevent the transmission of imperfect corporeal systems to future beings. If we see the children of the wicked flourishing in health and vigour, the inference is, that they have inherited strong constitutions from their parents, and have not in their own lives seriously transgressed the organic laws. We have no authority from our philosophy for supposing that Providence, in removing the just man's children, intends merely to try his faith or patience, to wean him from the world, or to give occasion for recompensing him hereafter for his suffering; nor for believing that the unjust man's family is permitted to flourish, with a view of aggravating his guilt by adding ingratitude for such blessings to his other iniquities, in order to augment his punishment in a future life. We see, in these results, simply the consequences of obedience and disobedience to the laws impressed by the Creator on our constitution.

Mark, now, from how many perplexities and difficulties

this principle delivers us. When the children of good men are healthy, this circumstance is regarded as agreeable to the notions which may reasonably be entertained of a just Providence. But when other men, not less excellent, have feeble children, who die prematurely and leave the parents overwhelmed with grief, the ways of Providence are regarded as inscrutable; or, by way of reconciling them to reason, we are told that those whom God loveth he chasteneth. When, however, the wicked man's children die prematurely, this is regarded as a just punishment for the sins of the parents: but sometimes they live long, and are prosperous; and this is cited as an example of the long-suffering and loving kindness of God! The understanding is confounded by these contradictory theories, and no conclusions can be drawn from the events applicable to *our practical improvement*. Accordingly, ministers of the gospel, among whom these heterogeneous notions of the divine government are prevalent, have not only neglected to teach God's natural laws to their flocks, but some of them have represented natural science as the hand-maid of infidelity, and especially phrenology as opposed to Christian truth. Yet, while they have done so, they have not escaped the consequences of their neglect. Their discourses have been far less replete than otherwise they might have been, with useful practical instruction concerning the means of advancing the cause of virtue in this world; and they have not felt at ease in their own minds regarding the stability and progress of religion When they shall become the true expounders of God s will in regard to this world, (which at present, I am constrained to believe many of them are not,)—when they look at the independence of the natural laws—when they recognise the principle that obedience to each has its peculiar reward, and disobedience its appropriate punishment, they will find that their difficulties will greatly diminish. The man who obeys every law but one, is punished for his single infraction; and he by whom one only is obeyed, does not, on account of his neglect of all the others, lose the reward of his solitary act of obedience.

It still remains quite true, that "those whom God loveth he chasteneth;" because all the punishments inflicted for the breach of his laws are instituted in love, to induce us to obey them for our own good: but we escape from the contradiction of believing that he sometimes shows his love by

punishing men who *obey* his laws; which would be the case if he afflicted good men by bad health, or by the death of their children, merely as trials and chastisements, independently of their having infringed the laws of their organic constitution.

We escape also from another contradiction. The most religious persons who implicitly believe that disease is sent as a chastisement for sin, or in token of divine love, never hesitate, when they are sick, to send for a physician, and pay him large fees to deliver them as speedily as possible from this form of spiritual discipline. This is very inconsistent on their parts. The physician, however, proceeds at once to inquire into the *physical causes* which have disordered the patient's organization; he hears of wet feet, exposure to cold air, checked perspiration, excessive fatigue, or some similar influence, and he instantly prescribes *physical remedies*, and is often successful in removing the disorder. In all this proceeding, the common sense of the patient and physician leads them to practise the very doctrine which I am expounding. They view the suffering as the direct consequence of the departure of some of the bodily organs from their healthy course of action, and they endeavour to restore that state.

I am furnished with a new and striking illustration of the difference of practical result between the one and the other of these views of the divine administration of the world. When the cholera approached Edinburgh, a board of health was instituted under the guidance of *physicians*. *They* regarded the cholera simply as a *disease*, and they viewed disease as the result of disordered bodily functions. They, therefore, urged cleanliness, supplied nourishing food to the poor, and provided hospitals and medicine for the infected; and these means were, on the whole, surprisingly successful. Rome is at this moment threatened with the approach of cholera; but the Pope and his Cardinals are pleased to view it not as a disease, but as a religious dispensation; and what means do *they* use to prevent its approach? A friend in Rome, in a letter dated November 5, 1835, writes thus:—"A black image of the Virgin has lately been carried through the city by the Pope and all the Cardinals, for the express purpose of averting the cholera; so you see we are in a hopeful way, if it should assail us." Every reflecting mind must see the superiority of the precautions used in the city

of Edinburgh, over those practised in Rome; yet the opinion that disease is the consequence of disordered bodily functions, and that the action of these functions is regulated by laws peculiar to themselves and distinct from the moral and religious laws, lies at the bottom of these different courses of action. My aim, you will perceive, is to bring our philosophy and our religious notions into harmony, and to render our practice consistent with both.

The third great class of natural laws comprehends the *moral, religious,* and *intellectual.* These laws are founded in the constitution of our mental faculties and their relations. In the works on phrenology, the faculties are divided into three great classes, Animal Propensities, Moral Sentiments, and Intellectual Powers; and the primitive functions, the spheres of activity, and the uses and abuses of each, are described, so far as these are ascertained. The ideas which I wish now to express are, that each of these faculties has objects beneficial to man related to it, which it desires to attain, and that there are laws regulating its action in attaining them; that the faculties are so far independent of each other, that we may pursue the objects of one or more of them, and omit the pursuit of the objects of the others; that the results of the action of the faculties are fixed and certain; and that by knowing the primitive functions, the objects and the laws of our faculties, we may anticipate, with surprising accuracy, the general issue of any course of conduct which we may systematically pursue: Farther—that when we have acted in conformity with the dictates of the moral sentiments and enlightened intellect, which are the ruling powers in our mental constitution, we shall find the issue pleasing and beneficial; and that, when we have acted in opposition to their dictates, we shall reap sorrow and disappointment.

I shall illustrate these principles by examples. The propensity of Acquisitiveness desires blindly to acquire property, and this is its primitive function. If it act independently of intellect, as it does in idiots, and sometimes in children, it may lead to acquiring and accumulating things of no utility. If it be directed by enlightened intellect, it will desire to store up articles of real value. But it may act, either with or without the additional guidance of the moral sentiments. When it acts *without* that direction, it prompts the individual to appropriate to himself things of value, regardless of

justice and the rights of others. When acting in subordination to the moral sentiments, it leads to acquiring property by means just and lawful.

These, then, are three directions which the acquisitive propensity may follow; but there are still a fourth and a fifth. It may act under the guidance of the moral sentiments, so far as never to invade the rights of others, and yet its action may terminate in its own gratification, without any fixed ulterior object. Thus, when a talented merchant carries on a great extent of commercial dealings, and acquires thousands upon thousands of pounds, all in an honourable way, he may do so without ever contemplating any good or noble end to be accomplished by means of his gains. Or, fifthly, an individual may be animated by the desire to confer some substantial enjoyment on his family, his relatives, his country, or mankind, and perceiving that he cannot do so without wealth, he may employ his acquisitiveness, under the guidance of intellect and moral sentiment, to acquire property for the purpose of fulfilling this object.

According to my perceptions of the divine government, there are specific results attached by the Creator to each of these modes of action of the propensity; which results occur in virtue of the laws under which he has appointed the faculty to act. For example—When the propensity acts without intellect, the result, as I have said, is the accumulation of worthless trash. We see this occur occasionally in adult persons, who are not idiots in other matters, but who, under a blind Acquisitiveness, buy old books, old furniture, or any other object of which they can obtain *a bargain*. I knew an individual who, under this impulse, bought, at a sale of old military stores, a lot of worn-out drums. They were set up at sixpence each, and looked so large to the eye for the money, that he could not resist bidding for them. He had no use for them, they were unsaleable, and they were so bulky that it was expensive to store them. He was, therefore, under the necessity of bestowing them on the boys in the neighbourhood; who speedily made the whole district resound with unmelodious noises. In these instances, as no law of morality is infringed, the punishment is simply the loss of the price paid.

When the propensity acts independently of justice and leads to stealing, the moral faculties of impartial spectators

are offended, and prompt them to use speedy measures to restrain and punish the thief.

When Acquisitiveness acts in conformity with intellect and justice, but with no higher aim than its own gratification, the result is success in accumulating wealth, but the absence of satisfactory enjoyment of it. The individual feels his life vanity and vexation of spirit, because, after he has become rich, he discovers himself to be without either object or possession calculated to gratify his moral and religious feelings, which must be satisfied before full happiness can be experienced. This is the direct result of the constitution of the mind; for, as we possess moral faculties, moral objects alone can satisfy *them;* and mere wealth is not such an object.

When the aim of life is to communicate enjoyment to other beings, such as a family, relatives, or our fellow-citizens, and when Acquisitiveness is employed, under the guidance of moral sentiment and intellect, for the purpose of accomplishing this end, success will generally be obtained, and satisfaction will also be felt in success; because, through the whole course of life, the highest powers will have pursued a noble and dignified object, fitted for their gratification, and employed Acquisitiveness in its proper and subordinate capacity as their ministering servant.

I have mentioned that every faculty has a legitimate sphere of activity, and that happiness and duty consist in the proper application of them all. If we add to this, the principle, that we cannot attain the rewards or advantages attached to the proper employment of any faculty, if we omit to use it, we shall have another example illustrative of the order of the moral government of the world. For instance, as Providence has rendered property essential to our existence and welfare, and given us a faculty prompting us to acquire it; if any individual, born without fortune, shall neglect to exercise Acquisitiveness, and abandon himself, as his leading occupation, to the gratification of Benevolence and Veneration, in gratuitously managing public hospitals, in directing charity schools, or in preaching to the poor, he will suffer evil consequences. He must live on charity, or become poor and starve. Observe also, that, in pursuing such a course of action, he neglects justice as a regulating motive; for if he had listened to Conscientiousness, it would have dictated to him the necessity either of making these pursuits

his profession, and acting for hire, or of practising another profession, and following *them* only in intervals of leisure. St. Paul, in similar circumstances, wrought with his hands, and made tents, that he might be burdensome to no one. The practical idea which I wish to fix in your minds by this example is, that if we pursue objects related exclusively to Benevolence and Veneration, although we may obtain *them*, we shall not thereby attain objects related to Acquisitiveness; and yet, that the world is so arranged, that we must attend to the objects of all our faculties before we can fully discharge our duties, or be happy.

Not only so, but there are *modes* appointed in nature by which the objects of our different faculties may be attained; by pursuing which we are awarded with success, and by neglecting which we are punished with failure. The object of Acquisitiveness, for example, is to acquire things of use. But these cannot be reared from the ground, nor constructed by the hand, nor imported from abroad in exchange for other commodities, without a great expenditure of time, labour, and skill. Their *value* indeed is in general measured by the time, labour, and skill, expended in their production. The great law, then, which God has prescribed to govern Acquisitiveness, and by observing which he promises it success, is, that we shall practise patient, laborious, and skilful exertion, in endeavouring to attain its objects. "The hand of the diligent maketh rich," is the law of nature. When, however, men, losing sight of this divine law, resort to gaming and speculation, to thieving, cheating, and plundering, to acquire property; when "they *hasten* to become rich," they "fall into a snare." Ruin is the natural result of such conduct; because, according to nature, wealth can be procured only by labour; and although one acute, or strong, or powerful man may acquire wealth by cheating or plundering twenty or thirty honest and industrious citizens, yet, as a general rule, their combined sagacity and strength would, in the end, defeat and punish him; while, if all, or even the majority, of men, endeavoured to procure wealth by mere speculation, stealing, and swindling, there would speedily be no wealth for them to acquire.

The Scripture authoritatively declares, "Thou shalt not steal;" but when a man with a strong Acquisitiveness and defective Conscientiousness enters into a great mercantile community, in which he sees vast masses of property

daily changing hands, he often does not perceive the force of the prohibition: on the contrary, he thinks that he may, with manifest advantage, speculate, lie, cheat, swindle, perhaps steal, as a more speedy and effectual means of acquiring a share of that wealth, than by practising laborious industry. Nevertheless, this must be a delusion; because, although God does not state the reason why he prohibits stealing, it is certain that there must exist a reason replete with wisdom. He leaves it to human sagacity to discover *the philosophy of the precept;* and it is the duty of the Christian teacher and moral philosopher to unfold to the understandings of the young, *why* it is *disadvantageous*, as well as sinful, to break the commandments of the living God. If I merely desire a child not to cross a certain path, it will feel curiosity on the one hand, struggling against filial reverence on the other. If I lead it to the path, and show to it a mighty gulf which would swallow it up, curiosity is satisfied, and a sense of its own danger operates in aid of the injunction. Obedience is thereby rendered easier and more practicable. Thus it is also with moral duties. Whenever the *philosophy* of the practical precepts of the New Testament shall be studied and taught in schools, in the domestic circle, and from the pulpit, the whole power of intellectual conviction will be added to the authority of the Scripture in enforcing them, and men will be induced by a clear perception of their own *interest* in this world, as well as by their hopes and fears in relation to the next, to yield obedience to the laws of their Creator. What a glorious theme will such a philosophy afford to vigorous and enlightened minds for the instruction of the people!

Similar observations might be made in regard to the *laws* prescribed by nature for the regulation of all our faculties in the pursuit of their objects; but your time does not permit me to offer more than the preceding illustration.

If we look at the living world only in the mass, without knowing the distinct existence of the mental faculties, their distinct objects, and their distinct laws, the results of their activity appear to be enveloped in sad confusion: we see some moral and religious men struggling with poverty, and others prosperous in their outward circumstances; some rich men extremely unhappy, while others are apparently full of enjoyment; some poor men joyous and gay, others miserable and repining; some irreligious men in possession

of vast wealth, while others are destitute of even the necessaries of life. In short, the moral world appears to be one great chaos—a scene full of confusion, intricacy, and contradiction. But if we become acquainted with the primitive faculties, and their objects and laws, and learn that different individuals possess them from nature in different degrees of strength, and also cultivate them with different degrees of assiduity, and that the consequences of our actions bear an established relation to the faculties employed, the mystery clears up. The religious and rich man is he who exercises both Veneration and Acquisitiveness according to the laws of their constitution; the religious and poor man is he who exercises Veneration, but who, through deficiency of the organ, through ignorance or indolence, or some other cause, does not exercise Acquisitiveness at all, or not according to the laws by which its success is regulated. The rich man who is happy, is one who follows high pursuits related to his intellect and moral sentiments, as the grand objects of life, and makes Acquisitiveness play its proper, but subordinate part. The rich man who is unhappy, is he who, having received from a bountiful Creator moral and intellectual faculties, has never cultivated them, but employed them merely to guide his Acquisitiveness; the gratification of which he has made the leading object of his life. After he has attained that object, his moral sentiments and intellect being left unprovided with objects, feel a craving discontent, which constitutes his unhappiness.

I could proceed through the whole list of the faculties and their combinations in a similar way; but it is unnecessary to do so, as these illustrations will, I hope, enable you to perceive the principle which I am anxious to expound.

Let us now take a brief and comprehensive survey of the point at which we have arrived.

If we are told that a certain person is extremely pious, benevolent, and just, we are entitled to conclude that he will experience within himself great peace, joy, and comfort, from his own dispositions; because these enjoyments flow directly from the activity of the organs which manifest piety, justice, and beneficence. We are entitled farther to believe, that he will be esteemed and beloved by all good men who know him thoroughly, and that they will be disposed to promote, by every legitimate means, his welfare and happiness, because his mental qualities naturally excite into activity

corresponding faculties in other men, and create a sympathetic interest on their part in his enjoyment. But if we hear that this good man has been upset in a coach, and has broken his leg, we conclude that this event has arisen from neglect of a physical law, which, being independent of the moral law, acted without direct relation to his mental qualities. If we hear that he is sick, we conclude that, in some organ of his body, there has been a departure from the laws which regulate its healthy activity, and (these laws also being distinct) that the sickness has no direct relation to his moral condition. If we are told that he is healthy and happy, we infer that his organic system is now acting in accordance with the laws of its constitution. If we are told that he has been afflicted by the loss of an intelligent and amiable son, in the bloom of youth, we conclude either that the boy has inherited a feeble constitution from his parents, or that the treatment of his bodily system, in infancy and youth, has been, in some way or other, at variance with the organic laws, and that his death has been the consequence, which his father's piety could not avert.

If, on the other hand, we know a man who is palpably cold-hearted, grasping, and selfish, we are authorized to conclude—first, that he is deprived of that delicious sunshine of the soul, and all those thrilling sympathies with whatever is noble, beautiful, and holy, which attend the vivacious action of the moral and religious faculties; and, secondly, that he is deprived of the reflected influence of the same emotions from the hearts and countenances of the good men around him.

These are the direct punishments in this world, for his not exercising his moral and religious powers. But if he has inherited a fine constitution, or if he be temperate, sober, and take regular exercise, he may reap the blessing of health; and if he does so, he must be regarded as enjoying *it* as the reward of his compliance with the organic laws. There is no inconsistency in this enjoyment being permitted to him, because the moral and organic laws are distinct, and he has obeyed the laws which reward him. If his children have received from him a sound frame, and have been treated prudently and skilfully, they also may live in health; but this, again, is the consequence of obedience to the same laws. If they have inherited feeble constitutions, or if their management have been at variance with these laws.

they will die, just as the children of good men in similar circumstances will do. If the selfish man pursue wealth according to the laws that regulate its acquisition, he will, by that obedience, become rich; but if he neglect to exercise Acquisitiveness, or infringe these laws, he will become poor, just as the good man would do in similar circumstances.

It appears to me that, in these arrangements, we see the dictates of our moral and intellectual faculties clearly supported by the order of external nature; and hence we obtain evidence of an actual moral government existing in full force and activity in this world.

In short, according to this view of the divine government, instead of there being confusion and a lack of justice in the administration of human affairs, there is the reverse—there is a reward for every species of obedience, and a punishment for every species of disobedience to the Creator's laws. In order to preserve our minds habitually under the impression of discipline, our duties correspond to the different parts of our constitution; rewards and chastisements are annexed to each of them; and so little of favouritism or partiality is shown, that, although we obey all the natural laws but one, we do not escape the punishment of infringing that single law—and, although we break them all but one, we are not denied the reward of that solitary instance of obedience.

But you will perceive that, before you can comprehend this system of government, you must study and become acquainted with the objects in nature, by the action of which it takes place, whether these be external, or consist of our own bodies and minds. If mankind have hitherto lived without this knowledge, can you wonder that the ways of Providence have appeared dark and contradictory? And if by means of phrenology we have now discovered the constitution of the mind, and its relationship to our bodies and external nature; if, moreover, physical science has largely opened up to us the constitution and laws of the objects by which we are surrounded and affected; need we feel surprise that the dawn of a new philosophy begins to break forth upon our vision—a philosophy more consistent, more practical, and more consolatory, than any that has hitherto appeared?

LECTURE III.

ADVANTAGES OF A KNOWLEDGE OF THE PRINCIPLES OF MORALS: DUTIES PRESCRIBED TO MAN AS AN INDIVIDUAL: SELF CULTURE.

The views in the preceding lecture accord with those of Bishop Butler—We go farther than he did, and show the natural arrangements by which the consequences mentioned by him take place—Importance of doing this—Certain relations have been established between the natural laws, which give to each a tendency to support the authority of the whole—Examples—Duties prescribed to Man as an Individual considered—The object of man's existence on earth is to advance in knowledge, wisdom, and holiness, and thereby to enjoy his being—The glory of God is promoted by his accomplishing this object—The first duty of Man is to acquire knowledge—This may be drawn from Scripture and from nature—Results from studying heathen mythology and nature are practically different—Difference between the old and the new philosophy stated—Clerical opposition to these lectures.

HAVING in the previous lectures considered what constitutes an action right or wrong, and also the punishments which attend neglect of duty, and the rewards which performance brings along with it, I proceed to remark, that the views there unfolded essentially correspond with those entertained by Bishop Butler, and which he has adopted as the groundwork of his treatise on the "Analogy of Natural and Revealed Religion." "Now," says he, "in the present state, all which we enjoy, and a great part of what we suffer, is put in our own power. For pleasure and pain are the consequences of our actions; and we are endued by the Author of our nature with capacities of foreseeing these consequences." "I know not that we have any one kind or degree of enjoyment, but by the means of our own actions. And by prudence and care, we may, for the most part, pass our days in tolerable ease and quiet; or, on the contrary, we may, by rashness, ungoverned passion, wilfulness, or even by negligence, make ourselves as miserable as ever we please. And many do please to make themselves extremely miserable; *i. e.*, they do what they know beforehand will render them so. They follow those ways, the fruit of which they know, by instruction, example, experience, will be disgrace, and poverty, and sickness, and un-

timely death. This every one observes to be the general course of things; though, it is to be allowed, we cannot find by experience that all our sufferings are owing to our own follies." (Part I. chap. 2.)

The common sense of mankind yields a ready assent to this doctrine. We go farther than Bishop Butler, by showing the laws, or natural arrangements, according to which the consequences mentioned by him take place. This is a point of material moment in philosophy, and it leads me to remark that the grand difference between the exposition of moral science which I am now attempting to give, and those which have been presented by preceding inquirers, consists in this—that, hitherto, moralists generally have laid down precepts without showing their foundation in our constitution, or the mode in which disregard of them is punished by the ordinary operation of natural causes. They failed in this, because they were imperfectly acquainted with the constitution of the mind, and because the independent operation of the different natural laws, expounded in my last lecture, was either unknown to them, or the consequences were not perceived. In their expositions of moral philosophy they resembled those who teach us to *practise* an art without explaining the scientific principles on which the practice is founded. It is my object to explain to you not only the practice of virtue, but the laws of our constitution on which it depends.

The difference between Paley's moral philosophy, and that which I am now teaching, may be illustrated thus: a practical brewer is a man who has been taught to steep barley in cold water for a certain time, to spread it on a stone floor for so many hours, to dry it on a kiln, at which point it is malt; to grind the malt, to mash it by pouring on it hot water, to boil the extract with hops, to cool it, to add yeast to it when cold, and to allow it to ferment for a certain number of days. A person of ordinary sagacity, who has seen these processes performed, will be able to repeat them, and he may thereby produce ale. But all the while he may know nothing of the laws of chemical action, by means of which the changes are evolved. He will soon observe, however, that the fermentation of the worts goes on sometimes too rapidly, sometimes too slowly, and that he makes bad ale. By experience he may discover what he considers causes of these effects; but he will frequently

find that he has been wrong in his judgment of the causes, and he will do harm by his remedies. In short, he will learn that, although he knows the rules how to make good ale, the practice of them, with uniform success, surpasses his skill. The reason of his perplexity is this: the barley is organized matter, which undergoes a variety of changes, depending partly on its own constitution and partly on the temperature of the air, on the quantity of moisture applied to it, the thickness of the heap in which it is laid, and other causes, of the precise nature and effects of which he is ignorant. Farther; the extract from the malt, which he wishes to ferment, is a very active and delicate agent, undergoing rapid changes influenced by temperature, electricity, and other causes, of the operation of which also he knows nothing scientifically. If all the materials of his manufacture were passive, like stocks and stones, his practical rules might carry him much farther toward uniform and successful results; but seeing that they are agents, and that their modes of action are affected by a variety of external causes and combinations, he cannot securely rely on producing the effects which he wishes to attain, until he becomes *scientifically* acquainted with the *qualities* of his materials, and the modifying influences of the agencies to the operations of which they were exposed. After attaining this knowledge, he becomes capable of suiting his practice to the circumstances in which, at each particular time, he finds his materials placed. If he cannot yet command the result, it is a proof that his knowledge is still imperfect.

This illustration may be applied to the subject of moral philosophy. In practical life we are ourselves active beings, and we are constantly influenced by agents, whose original tendencies and capacities differ from each other—who are placed in varying circumstances, and who are acted on and excited or impeded by other beings. It is a knowledge of their nature alone, that can enable us to understand the phenomena of such beings occurring under the diversified circumstances in which they may be placed. And moreover, when the *reason why* a particular line of conduct should be adopted, and the precise way in which reward or punishment are linked as natural consequences of performance and neglect are known, there is a far higher probability of the duty being discharged than when a *precept*

is our only motive to action. Mere rules may no doubt be apprehended and practised by superior minds; but to the ordinary understanding, ignorant of their foundations and sanctions in nature, their importance and authority are far from being so evident as to impress it with a deep sense of obligation.

A great musician may enable another, equally gifted, to *feel* the exquisite harmony of a certain composition; but he will strive in vain to convey the same feeling of it to a person destitute of musical talent. By teaching the laws of harmony, however, to this individual, he may succeed in *convincing his understanding* that, in the piece in question, these laws are observed, and that there can be no good music without such observance.

Although the natural laws act separately and independently, in the manner pointed out in the immediately preceding lecture, certain relations have been established between them, which tend to support the authority of the whole. In consequence of these relations, obedience to each law increases our ability to obey the others, and disobedience to one disables us to some extent for paying deference to the rest.

The man, for example, who obeys the *physical* laws, places himself in a favourable condition to observe the *organic*, the *moral*, and the *intellectual* laws. He is safe from personal injury, and he creates by his industry the elements of physical plenty, which are as important to the favourable action of his higher faculties, as air is to the lungs, or light to the eyes.

By obeying the *organic* laws, in favourable circumstances, he ensures the possession of vigorous health; and when we view the muscular system of man as the instrument provided to him by the Creator for operating on physical nature, and the brain as the means of acting on sentient and intelligent beings, we discover that organic health is a fundamental requisite of usefulness and enjoyment. We are led to see that the possession of it contributes in the highest degree to our obeying the physical laws, and also to our discharging our active duties, in other words, to our obeying the laws of morality and intellect. General obedience to the organic laws, also, by preserving the body in a favourable condition of health, fits it for recovering in the best manner from the effects of injuries sustained by inad-

vertent infringement of the physical laws. Disobedience to the organic laws, on the other hand, unfits us for obeying the other laws of our being. A student, for instance, who impairs his brain and digestive organs by excessive mental application and neglect of exercise, weakens his nerves and muscular system, in consequence of which he becomes feeble, and incapable of sustaining bodily action, in other words, in coping with the law of gravitation, without pain and fatigue. He becomes, also, more liable to disease. A man who breaks the organic laws by committing a debauch, becomes, for a season, incapable of intellectual application.

By obeying the moral and intellectual laws—that is, by exercising our whole mental faculties, according to the laws of their constitution, and directing them to their proper objects—we not only enjoy the direct pleasure which attends the favourable action and gratification of all our powers, but become more capable of coping with the physical influences which are constantly operating around us, and of bending them in subserviency to our interest and our will; and also of preserving all our organic functions in a state of egulated vigour and activity.

In short, if we obey the various laws instituted by the Creator, we find that they act harmoniously for our welfare, that they support each other, and that the world becomes a clear field for the active and pleasurable exercise of all our powers; while, if we infringe one, not only does it punish us for the special act of disobedience, but the offence has the tendency to impair, to some extent, our power of obeying the others. So that we discover in the natural laws a system of independent, yet combined and harmonious action, admirably adapted to the mind of a being who has received not only observing faculties, fitted to study existing things and their phenomena, but reflecting intellect, calculated to comprehend their relations, adaptations, and reciprocal influences.

Thus, the first grand step in comprehending the principles of the Divine government is, to learn to look on the physical world as it actually exists, and not through the medium of a perverted imagination, or of erroneous assumptions; and the second is, to compare it with the constitution of man, physical and mental, as designedly adapted to it. We shall not find that it is an elysium, and we know that we are not

angels; but we shall discover, that while the heavens declare the glory of the Creator, and the revolving firmament of suns and worlds proclaim His might, the elements and powers of man's mind and body, viewed in their tendencies and adaptations, bespeak, in a language equally clear and emphatic, His intelligence, beneficence, and justice.

Having thus expounded the general system of the Divine government, let us now consider the duties prescribed to us by our constitution and its relations.

THE DUTIES PRESCRIBED TO MAN AS AN INDIVIDUAL.

Descending to *particular duties*, we may first consider those prescribed to man *as an individual*, by his own constitution and that of the external creation.

The constitution of man seems to show that the object of his existence on earth is to advance in knowledge, wisdom, and holiness; and thereby to enjoy his being. Divines add, that another object is to "glorify." According to my views, obedience to the Divine laws—or, what is the same thing, performance of our duties—is the prime requisite, then comes enjoyment; and the glory of God is evolved as the result of these two combined. His wisdom and power are strikingly conspicuous, when we discover a system, apparently complicated, to be, in fact, simple, clear, beautiful, and beneficent: and when we behold His rational creatures comprehending His will, acting in harmony with it, repeating all the enjoyments which His goodness intended for them, and ascending in the scale of being by the cultivation and improvement of their noble powers, the glory of God strikes every intelligent mind as surpassingly great. A deep conviction then arises, that the means by which we can advance that glory, is to promote, where possible, the fulfilment of the Creator's beneficient designs, and sedulously to co-operate in the execution of his plans. When the object of human existence is regarded in this light, it becomes evident that obedience to every natural law is a positive *duty* imposed on us by the Creator, and that infringement or neglect of it is a positive *sin* or transgression against His will. Hence, we do not promote the glory of God by singing His praises, offering up prayers at His throne, and performing other devotional exercises, if, at the same time, by neglecting the physical, organic, and moral laws, we act in direct contradiction to His plan of government, and present ourselves before

Him as spectacles of pain and misfortune, suffering the punishment of our infringements of His institutions, instead of reaping enjoyment by obedience, as He intended that we should do. Every law of God, however proclaimed to us —whether made known by the Scriptures or by His works —has an equal claim to observance; and as religion consists in revering God and obeying His will, it thus appears that the discharge of our daily secular duties is literally the fulfilment of *an essential part of our religious obligations.*

It is only by presenting before the Creator our bodies in as complete a condition of health and vigour, our minds as thoroughly disciplined to virtue and holiness, and as replete with knowledge, and, in consequence, our whole being as full of enjoyment, as our constitution will admit of—that we can really show forth His goodness and glory.

If these ideas be founded in nature, the first duty of man as an individual is obviously to acquire knowledge of himself and of God's laws, in whatever record these are contained. I infer this to be a duty, because I perceive intellectual powers bestowed on him, obviously intended for the purpose of acquiring knowledge; and not only a wide range of action permitted to all his powers, corporeal and mental, with pleasure annexed to the use, and pain to the abuse of them: but also a vast liability to suffer by the influence of the objects and beings around him, unless, by means of knowledge, he accommodate his conduct to their qualities and action. And while he is thus circumstanced, he has received few instinctive directions for the guidance of his conduct; so that he has only the alternative presented to him of using his reason, or of enduring evil.

It has too rarely been inculcated that the gaining of knowledge is a *moral* duty; and yet, if our constitution be so framed that we cannot securely enjoy life, and discharge our duties as parents and members of society without it, and if a capacity for acquiring it has been bestowed on us, its acquisition is obviously commanded by the Creator, as a duty of the highest moment. The kind of knowledge which we are bound to acquire is clearly that of God's will and laws, whether written in the Scriptures, or in the great book of creation. It is the office of divines to instruct you in the duties prescribed in the Bible; and I confine myself to the department of nature.

The ignorant man suffers many inconveniences and dis-

resses to which he submits as inevitable dispensations of Providence: his own health perhaps fails him; his children are perverse and disobedient; his trade is unsuccessful; and he regards all these as visitations from God, as examples of the chequered lot of man on earth. If he be religious, he prays for a spirit of resignation, and directs his hopes to heaven: but if the foregoing view of the divine administration of the world be sound, he ought to ascribe his sufferings, in great part, to his own ignorance of the scheme of creation, and to his non-compliance with its rules. In addition to his religious duties, he ought, therefore, to fulfil the natural conditions appointed by the Creator as antecedents to happiness, and then he may expect a blessing on his exertions and on his life.

Important, however, as the knowledge of nature thus appears to be, it is surprising how recently the efficient study of it has begun. It is not more than three centuries since the very dawn of inductive philosophy; and some of the greatest scientific discoveries have been made within the last fifty or sixty years. These facts tell us plainly that the race of man, like the individual, is progressive; that it has its infancy and youth; and that we who now exist, live only in the day-spring of intelligence. In Europe and America the race may be viewed as putting forth the early blossoms of its rational nature; while the greater part of the world lies buried in utter darkness. And even in Europe it is only the more gifted minds who see and appreciate their true position. These, from the Pisgah of knowledge, gaze upon the promised land of virtue and happiness stretched out before their intellectual eye; distant, indeed, but not inaccessible—and sufficiently near to permit them to descry, however faintly, its beauty and luxuriance.

If the study of nature and nature's laws be our first duty as rational and accountable beings, a moment's reflection will satisfy you that the instruction hitherto generally given even to the young of the higher ranks, has been preposterous and unavailing for purposes of practical utility. If a boy be taught the structure, uses, and laws of health of the lungs, he will be furnished with motives for avoiding sudden transitions of temperature, excessive bodily and mental exertion, and sleeping in ill-ventilated rooms; and, on the other hand, for supporting every measure for improving, the purity of the air in his native city, for rendering churches,

theatres, lecture-rooms, and all places of public resort, more accordant with the laws of the human constitution in regard to temperature and ventilation; in short, this knowledge will enable him to avoid much evil and to accomplish much practical good. If he do not acquire it, he will be exposed, in consequence of his ignorance, to suffer from many of these external influences operating unknown to himself, and injuriously both on his mind and body. If, on the other hand, he be taught that Romulus and Remus were suckled by a she-wolf; that Æneas was the son of Venus, who was the goddess of love; that in Tartarus were three Furies, called Alecto, Tisiphone, and Megœra, who sent wars and pestilence through the earth, and punish the wicked after death with whips of scorpions; that Jupiter was the son of Saturn, and the chief among all the gods; that he dwelt on Mount Olympus, and employed one-eyed giants called Cyclops, whose workshop was in the heart of Mount Ætna, to forge thunderbolts, which he threw down on the world when he was angry—the youth learns mere poetical fancies, often abundantly ridiculous and absurd, which lead to no useful actions. As all the personages of the heathen mythology existed only in the fancies of poets and sculptors, they are not entities or agents; and do not operate in any shape whatever on human enjoyment. The boy who has never dedicated his days and nights to the study of them, does not suffer punishment for his neglect; which he infallibly does, for his ignorance of nature. Neither is he rewarded for acquiring such knowledge, as he is by becoming acquainted with nature, which always enables him to do something that otherwise he could not have done, to reap an enjoyment which otherwise he should have wanted, or to avoid an evil which otherwise would have overtaken him. Jupiter throws no thunderbolts on those who neglect the history of his amours and of his war with the giants; the Furies do not scourge those who are ignorant that, according to some writers, they sprang from the drops of blood which issued from a wound inflicted by Saturn upon his father Cœlus, and that, according to others, they were the daughters of Pluto and Proserpine; and the she-wolf does not bite us, although we be not aware that she suckled the founders of Rome—or, to speak more correctly, that credulous and foolish historians have said so. But if we neglect the study of God's laws, evil and misery most certainly ensue

These observations, however, are not to be understood as an unqualified denunciation of classical learning. The sentiment of Ideality finds gratification in poetic fictions: but it is absurd to cultivate it and the faculty of Language to the exclusion of others not less important; and besides, it must be kept in view, that in the pages of the Book of Nature, as well as in those of Homer, Virgil, and Ovid, ample materials are to be found for the cultivation and gratification of a refined taste.

In the past ages of the world, systematic instruction in nature, her laws, and her rewards and punishments, has been sadly neglected. Even the best educated classes have in general been left destitute of this knowledge. They have been instructed in classical literature, composed chiefly of elegant and ingenious fables; while the people at large have been taught to read and write, and left at that point to grope their way to knowledge without teachers, without books, and without encouragement or countenance from their superiors. In no country have the occupations of society, and the plan of life of individuals, been deliberately adopted in just appreciation of the order of nature. We ought, therefore, in reason, to feel no surprise that the very complex mechanism of our individual constitution, and the still more complicated relations of our social condition, frequently move harshly, and sometimes become deranged. It would have been miraculous indeed, if a being, deliberately framed to become happy only in proportion to his knowledge and morality, had found himself in possession of all the comforts and enjoyments of which his nature when cultivated is susceptible, while he was yet in profound ignorance of himself, of the world, and of their mutual adaptations.

As *individuals*, our sphere of intellectual vision is so limited, that we have great difficulty in discovering the indispensable necessity of knowledge to the discharge of our duties and the promotion of our happiness. We are too apt to believe that our lot is fixed, and that we can do extremely little to change and improve it. We feel as if we were overruled by a destiny too strong for our limited powers to cope with: and, as if to give strength and permanence to this impression, the man of the world asks us, What benefit would scientific information confer on the labourer, whose duty consists in digging ditches, in breaking stones, or in carrying loads, all day long; and when the day is done,

whose only remaining occupation is to eat, sleep, and propagate his kind? Or of what use is information concerning nature's laws to the shopkeeper, whose duty in life is to manage his small trade, to pay his bills punctually when due, and to collect sharply his outstanding debts? If these were *all* the duties of the labourer and of the shopkeeper, the man of the world would be right. But we discover in the individuals who have these duties allotted to them, faculties capable of far higher aims, and we say that nature points out the necessity of cultivating them. The answer which we make to the foregoing questions is, that the scheme of life of the day-labourer and of the shopkeeper, as now cast, is far short of the perfection which it is capable of reaching, and which it was evidently designed by the Creator to attain. It does not afford scope for the exercise of their noblest and best gifts, and it does not favour their steady advance in the scale of moral, religious, and intellectual existence.

The objector assumes that these classes have already attained the limits of their possible improvement; and if the case were so, the conclusion might be sound, that science will be useless to them. But if they be at present far from enjoying the full sweets of existence; if their condition be capable of vast amelioration, without deranging the order of social life; and if the knowledge of themselves and of nature be a means of producing these advantages; then the duty of acquiring knowledge is at once fundamental and paramount—it lies at the foundation of all improvement If the mass of the people be destined never to rise above their present condition of ignorance, want, and toil, we must abandon the idea that the attributes of justice and benevolence are manifested by God in this world.

I am anxious to press this idea earnestly on your consideration, because it appears to me to constitute the grand difference between the old and the new philosophy. The characteristic feature of the old philosophy, founded on the knowledge, not of man's nature but of his political history, is, that Providence intended different lots for men, (a point in which the new philosophy agrees,) and that, in the divine appointment of conditions, the millions, or vast masses of the people, were destined to act the part only of industrious ministers to the physical wants of society, while a favoured few were meant to be the sole recipients of knowledge and

refinement. In accordance with this principle, it is regarded not only as Utopian, but as actually baneful and injurious to the happiness of the industrious classes themselves, to open up to their minds high and comprehensive views of their own mental capabilities and those of external nature; because, it is said that such ideas render them discontented with their condition, while the arrangements of the Creator have placed impassable barriers in the way of their ever advancing beyond it. According to the old philosophy, therefore, it is not a duty imposed on every individual to exercise his intellectual powers in extending his acquaintance with nature; on the contrary, a labouring man fulfils his part completely when he acquires a knowledge of his moral and religious duties from the Bible, becomes master of his trade, and quietly and soberly practises the duties of his station, unmoved by ambition and unenlightened by science, till death consigns him to the grave. According to this philosophy, human nature is now stationary, or at least its advances are conducted exclusively by the higher classes, or by Providence in ways incomprehensible to us and which need none of our assistance; and so far as our influence is concerned, we ought to regard it as having already reached the summit level of improvement, and our greatest interest should be to prevent its flowing back into turbulence and vice.

The new philosophy, on the other hand, or that which is founded on knowledge of man's nature, admits the allotment of distinct conditions to different men, because it recognises evident differences in their mental and bodily endowments; but in surveying their faculties it discovers that all of them possess, in a greater or less degree, powers of observation and reflection calculated to observe and study nature; the sentiment of Ideality prompting them to desire refinement and to long for perfect institutions; the feeling of Benevolence desiring universal happiness; the sentiment of Conscientiousness rejoicing in justice; and emotions of Hope, Veneration, and Wonder, causing the glow of religious devotion to spring up in their souls, and their whole being to desire acquaintanceship with a God whom they may love, worship, and obey. And it proclaims, that beings so gifted were not destined to exist as mere animated machinery, liable to be superseded at every stage of their lives by the steam-engine, the pulley, or the lever; but were clearly in-

tended to advance in their mental attainments, and to rise higher in the scale of rational existence.

This conclusion is absolutely irresistible, if the general idea of the divine administration of the world, communicated in my last lecture, be sound—that which regards all nature as proceeding under fixed, independent, but harmonious laws. Under such a system, the Creator speaks forth from every element of nature, and proclaims his will to every human being, that he must acquire knowledge or suffer evil. We may rest assured that the fulfilment of every necessary duty is compatible with enlarged mental attainments in all the race; because the Creator has not bestowed capacities and desires on his creatures which their inevitable condition renders it impossible for them to cultivate and gratify. There are humbler minds fitted to perform the humbler duties of life, and no cultivation of which they are capable, although greatly superior to that which they now enjoy, will carry them beyond them. But in a thoroughly moral and enlightened community, no useful office will be degrading; nor will any be incompatible with the due exercise of the highest faculties of man.

It is delightful to perceive that these views are gaining ground, and are daily more and more advocated by the press. I recommend to your perusal a work just published,* entitled "My Old House, or the Doctrine of Changes," in which they are ably and eloquently enforced. Speaking of the purposes of God in the administration of the world, the author observes, that "the great error of mankind, on this subject, has at all times been, that feeling themselves, at least in the vast multitude of cases, to occupy (by the ordination of Providence, or by what they commonly consider as their unfortunate lot in life) but a very obscure and laborious station in the household, they are apt to think that it matters little with what spirit they advance to their toils—that they cannot be in a condition to give any appreciable advancement to the plans of the Master—and that, at any rate, if they do not altogether desert their place, and permit it to run into disorder, they have done all that can well be expected from them, or that they are indeed in a condition to do, for the progressive good of the whole. Take, for instance, the condition of a person who, in the lowest and obscurest lot of life, is intrusted with the bringing up of a

* 28th November, 1835.

family—and how often do we hear from such persons the complaint, that all their cares are insufficient for the moment that is passing over their heads—and that, provided they can obtain the mere necessaries of life, they cannot be required to look to any higher purposes which may be obtained their by cares. And yet, what situation in life is in reality more capable of being conducted in the most efficient and productive manner, or more deserving the nicest and most conscientious care of those intrusted with it? For, are not the hearts and understandings of the young committed to the immediate care of those who chiefly and habitually occupy the important scenes of domestic life—and if they pay a due regard, not only to the temporal, but to the moral and intellectual interests of their charge—if they make home the seat of all the virtues which are so appropriately suited to it—if they set the example—an example which is almost never forgotten—of laborious worth struggling, it may be, through long years, and yet never disheartened in its toils—and if by these means they make their humble dwelling a scene of comfort, of moral training, and of both material and moral beauty, which attracts the eye and warms the hearts of all who witness it—how truly valuable is the part which such servants of the Master have been enabled to perform for the due regulation of all parts of his household—and when their day of labour is done, and the cry goeth forth, 'Call the labourers to their reward,' with what placid confidence may they advance to receive the recompense of their toils—and be satisfied, as they prepare themselves for 'the rest that awaits them,' that, though their lot in life has been humble and their toils obscure, they have yet not been unprofitable servants, and that the results of their labours shall yet be 'seen after many days.'" "The same style of thought may be applied to all the varied offices which human life, even in its lowest forms and most unnoticed places, can be found to present—and when these varied conditions and duties of the 'humble poor' are *so* considered, it will be found that a new light seems to diffuse itself over the whole plan of the divine kingdom—and that no task which the Master of the household can assign to any of his servants, is left without inducements to its fulfilment, which may prepare the labourer for the most cheerful and delighted attention to his work." (P. 84.)* How important is *know-*

* The reputed author of these sentiments is a clergyman of

ledge to the due fulfilment of the humble, yet respectable, duties here so beautifully described!

I conclude this lecture by observing that the duty of acquiring knowledge implies *that* of communicating it to others when attained; and there is no form in which the humblest individual may do more good, or assist more effectually in carrying forward the improvement and happiness of mankind, than in teaching them truth and its applications. I feel that I lie under a moral obligation to communicate to you (who, by your attendance here, testify your desire of instruction,) the knowledge concerning the natural laws of the Creator, which my own mind has been permitted to discover. I learn that other instructors of the people have considered it to be *their* duty to denounce, as *dangerous*, the knowledge which is here communicated, and to warn you against it.* But I am not moved by such declamations. What I teach you, I believe to be truth inscribed by the hand of God in the book of nature; and I have never been able to understand what is meant by a *dangerous truth*. All natural truth is simply knowledge of what the Creator has instituted and done; and it savours of impiety, and not of reverence, to stigmatize it as injurious. The very opposite is the fact. Lord Bacon has truly said, that "there are, besides the authority of Scripture, two reasons of exceeding great weight and force, why religion should dearly protect all increase of natural knowledge: the one because it leads to the greater exaltation of the glory of God; for, as the Psalms and other Scriptures do often invite us to consider and to magnify the great and wonderful works of God, so if we should rest only in the contemplation of those which first offer themselves to our senses, we should do a

the Established Church of Scotland; and in May, 1839, the general assembly of that church appointed a committee of their number to inquire into the nature of his works, and to report whether he should be prosecuted for heresy! This is one, among many instances, of the evils of an Established Church. Its position is immoveable; and as it cannot advance with the stream of knowledge, it forms itself into a great barrier, to obstruct the current of human improvement.

* These lectures were reported in one of the newspapers in Edinburgh, and, during the delivery of them, more than one of the clergy of the Established Church preached sermons against them.

like injury to the majesty of God, as if we should judge of the store of some excellent jeweller by that only which is set out to the street in his shop. The other reason is, because it is a singular help, and a preservative against unbelief and error; For, says our Saviour, ye do err, not knowing the Scriptures nor the power of God; laying before us two books or volumes to study, if we will be secured from error—first, the Scriptures, revealing the will of God; and then the creatures, expressing his power." We have seen, however, that not the *power* of God only, but also his *will*, is expressed in the constitution of "the creatures;" and hence a double reason becomes manifest why it is our duty to study them.

It would seem, therefore, that the instructors alluded to have assumed that it is not truth, but error, which is inculcated in this place. If they had pronounced such an opinion after inquiry, and for reasons stated, I should have been ready to pause and reconsider my views; but they have condemned us unheard and untried—assuming boldly that, because we teach ideas different from their own individual notions, we are necessarily in error. This assumption indicates merely that our accusers have not arrived at the same preceptions of the Divine government with ourselves—a result that will by no means be wondered at by any one who considers that they have not followed the course of inquiry pursued by us. There is, however, some reason for surprise, that their opinions should be advanced as unquestionably superior to, and exclusive of, those of other men, adopted after patient observation and thought, seeing that many of them are the emanations of a dark age in which the knowledge of Nature's laws did not exist, and that they are prohibited, under pain of forfeiting their livings, from changing their tenets, even although they should see them to be erroneous.

I advance here, for your acceptance, no proposition based on the authority of my own discernment alone; but submit each to your scrutiny and judgment. I enable you, as far as in me lies, to detect all the errors into which I may inadvertently fall, and ask you to embrace only the ideas which seem to be amply supported by evidence and reason. We are told by a great authority, to judge of all things by their fruits; and, by this test, I leave the doctrines of this philosophy to stand or fall. What are the effects of them on

your minds? Do you feel your conceptions of the Deity circumscribed and debased by the views which I have presented—or, on the contrary, purified and exalted? In the simplicity, adaptations, and harmony of Nature's laws, do you not recognise positive and tangible proof of the omniscience and omnipotence of the Creator—a solemn and impressive lesson, that in every moment of our existence, we live, and move, and have our being, supported by his power, rewarded by his goodness, and restrained by his justice? Does not this sublime idea of the continual presence of God now cease to be a vague, and, therefore, a cold and barren conception; and does it not, through the medium of the natural laws, become a deep-felt, encouraging, and controlling reality? Do your understandings revolt from such a view of creation, as ill adapted to moral, religious, and intelligent being? or do they ardently embrace it, and leap with joy at light evolving itself from the moral chaos, and exhibiting order and beauty, authority and rule, in a vast domain where previously there was great darkness, perplexity, and doubt? Do you feel your own nature debased by viewing every faculty as calculated for virtue, yet so extensive in its range, that it has a sphere of action even beyond virtue, in the wild regions of vice, when it moves blindly and without control? Or do you perceive in this constitution a glorious liberty—yet the liberty only of moral beings, happy when they follow virtue, and miserable when they lapse into sin? In teaching you that every action of your lives has a consequence of good or evil annexed to it, according as it harmonizes with, or is in opposition to, the laws of God, do I promise impunity to vice, and thereby give a loose rein to the impetuosity of passion—or do I set up around the youthful mind a hedge and circumvallation, within which it finds itself in light, and liberty, and joy; but beyond which lie sin and inevitable suffering, weeping, wailing, and ghashing of teeth? Let the tree, I say, be known by its fruits. Look to heaven, and see if the doctrines which I teach have circumscribed or darkened the attributes of the Supreme; then turn your contemplation inward, and see whether they have degraded or exalted, chilled or inspired with humble confidence and hope, the soul which God has given you; and by your verdict pronounced after this consideration, let the fate of the doctrines be sealed. In teaching them, be it repeated, I consider

myself to be discharging a moral duty; and no frown of men will tempt me to shrink from proceeding in such a course. If my exposition of the Divine government be true, it is a noble vocation to proclaim it to the world; for the knowledge of it must be fraught with blessings and enjoyment to man. It would be a cold heart and a coward soul, that, with such convictions, would fear the face of clay; and only a demonstration of my being in error, or the hand of the destroyer Death, shall arrest my course in proclaiming every portion of my knowledge which promises to augment the virtue and happiness of mankind. If you participate in these sentiments, let us advance and fear not—encouraged by the assurance, that if this doctrine be of man it will come to nought, but that if it be of God, no human authority can prevail against it!

LECTURE IV.

PRESERVING BODILY AND MENTAL HEALTH, A MORAL DUTY. AMUSEMENTS.

The preservation of health is a moral duty—Causes of bad health are to be found in infringement of the organic laws—All the bodily organs must be preserved in proportionate vigour—The pleasures attending high health are refined and quite distinct from sensual pleasures—The habits of the lower animals are instructive to man in regard to health—Labour is indispensable to health—Fatal consequences of continued, although slight, infractions of the organic laws—Amusements necessary to health, and therefore not sinful—We have received faculties of Time, Tune, Ideality, Imitation, and Wit, calculated to invent and practise amusements—Their uses and abuses stated—Error of religious persons who condemn instead of purifying and improving public amusements.

The next duty of man, as an individual, is to apply his knowledge in preserving himself in health, bodily and mental. Without health he is unfit for the successful discharge of his duties. It is so advantageous and agreeable to enjoy sound health, that many persons will exclaim, "No prophet is needed to inform us that it is our duty and our interest sedulously to guard it;" but many who treat thus lightly the general injunction, are grievously deficient in practical knowledge how to carry it into effect. It is true that every

man in his senses, takes care not to fall into the fire or walk into a pool of water; but how many valuable lives are put in jeopardy by sitting in wet clothes, by overtasking the brain in study or in the cares of business, or by too frequently repeated convivialities!

In tracing to their source the calamities which arise to families and individuals from bad health and untimely death, attended by deep laceration of their feelings and numerous privations, it is surprising how many of them may be discovered to arise from slight but long continued deviations from the dictates of the organic laws; so slight that at first scarcely any injurious or even disagreeable result was observed; but which gradually augmented until the most ruinous consequences were produced. Perhaps the victim was an ardent student, and, under the impulse of a laudable ambition to excel in his profession, studied with so much intensity and for such long periods in succession, that he overtasked his brain, and ruined his bodily health. His parents and relations, equally ignorant with himself of the organic laws, were rejoiced in his diligence, and forming fond expectations of the brilliant future that must, in their estimation, await one so gifted in virtuous feeling, in intellect, and in industry; when suddenly he was seized with fever, with inflammation, or with consumption, and in a few days or weeks he was carried to the tomb. The heart bleeds at the sight; and the ways of Providence appear hard to be reconciled with our natural feelings and expectations; yet when we trace the catastrophe backward to its first cause, it is discovered to have had no mysterious or vindictive origin. The very habits which appeared to the spectators so amiable, and calculated to lead to such excellent attainments, were practically erroneous, and there was not one link wanting to complete the connexion between them and the catastrophe which all so seriously lament.

Another cause by which health and life are frequently destroyed, is *occasional* reckless conduct, pursued in ignorance of the laws of the human constitution. Take as an example the following case, which I have elsewhere given: A young man in a public office, after many months of sedentary occupation, went to the country on a shooting expedition, where he exhausted himself by muscular exertion, of which his previous habits had rendered him little capable: he went to bed feverish, and perspired much during the

night: next day he came to Edinburgh, unprotected by a great-coat, on the outside of a very early coach: his skin was chilled, the perspiration was checked, the blood received an undue determination to the interior vital organs, disease was excited in the lungs, and within a few weeks he was consigned to the grave.

I received an interesting communication, in illustration of the topic which I am now discussing, from a medical gentleman well known in the literary world by his instructive publications. His letter was suggested by a perusal of the "Constitution of Man." "On four several occasions," says he, "I have nearly lost my life from infringing the organic laws. When a lad of fifteen, I brought on a brain fever, (from excessive study,) which nearly killed me; at the age of nineteen I had an attack of peritonitis, (inflammation of the lining membrane of the abdomen,) occasioned by violent efforts in wrestling and leaping; and while in France, nine years ago, I was laid up with pneumonia, (inflammation of the lungs,) brought on by dissecting in the great galleries of La Pitié with my coat and hat off in the month of December, the windows next to me being constantly open; and in 1829 I had a dreadful fever, occasioned by walking home from a party, at which I had been dancing, in an exceedingly cold morning, without a cloak or great-coat. I was for four months on my back, and did not recover perfectly for more than eighteen months. All these evils were entirely of my own creating, and arose from a foolish violation of laws which every sensible man ought to observe and regulate himself by. Indeed I have always thought—and your book confirms me more fully in the sentiment—that, by proper attention, crime and disease and misery of every sort, could, in a much greater measure than is generally believed, be banished from the earth, and that the true method of doing so is to instruct people in the laws which govern their own frame."*

The great requisite of health is the preservation of all the leading organs of the body in a condition of regular and *proportionate* activity; to allow none to become too languid, and none too active. The result of this harmonious activity is a pleasing consciousness of existence, experienced when

* The author of this letter was Dr. Robert Macnish; and I regret to say, that since it was written he has fallen a victim to another attack of fever.

the mind is withdrawn from all exciting objects and turned inward on its own feelings. A philosophical friend once remarked to me, that he never considered himself to be in complete health, except when he was able to place his feet firmly on the turf, his hands hanging carelessly by his sides, and his eyes wandering over space, and thus circumstanced to feel such agreeable sensations arising in his mere bodily frame, that he could raise his mind to heaven, and thank God that he was a living man. This description of the quiet, pleasing enjoyment which accompanies complete health, appears to me to be admirable. It can hardly be doubted that the Creator intended that the mere play of our bodily organs should yield us pleasure. It is probable that this is the chief gratification enjoyed by the inferior animals; and although we have received the high gift of reason, it does not necessarily follow that we should be deprived of the delights which our organic nature is fairly calculated to afford. How different is the enjoyment which I have described, arising from the temperate, active, harmonious play of every bodily function—from sensual pleasure, which results from the abuse of a few of our bodily appetites, and is followed by lasting pain; and yet so perverted are human notions, in consequence of ignorance and vicious habits, that thousands attach no idea to the phrase *bodily pleasure*, but sensual indulgence. The pleasurable feelings springing from health are delicate and refined; they are the reward and the supports of virtue, and altogether incompatible with vicious gratification of the appetites. I am afraid that so widely do the habits of civilized life depart from the standards of nature, that this enjoyment is known, in its full exquisiteness, to comparatively few. Too many of us, when we direct our attention to our bodily sensations, experience, instead of it, only feelings of discomfort, anxiety, and discontent, which make us fly to an external pursuit, that we may escape from ourselves. This undefined uneasiness is the result of slight, but extensive derangement of the vital functions, and is the prelude of future disease. The causes of these uneasy feelings may be traced in our erroneous habits, occupations, and physical condition; and until society shall become so enlightened as to adopt extensive improvements in all these particulars, there is no prospect of their termination.

It is instructive to compare with our own, the modes of

life of the lower animals, whose actions and habits are directly prompted and regulated by the Creator, by means of their instincts; because, in all circumstances in which our constitution closely resembles theirs, their conduct is really a lesson read to us by the Allwise himself. If, then, we survey them attentively, we shall discover that the greatest care has been taken to prompt them to a course of action that shall produce this harmonious activity in all their vital organs, and thus ensure their possession of health. Animals in a state of nature are remarkably cleanly in their habits. You must have observed the feathered tribes dressing their plumage and washing themselves in the brooks. The domestic cat is most careful to preserve a clean, sleek, shining skin; the dog rolls himself on grass or straw; and you will see the horse, when grazing, do the same, if he has not enjoyed the luxury of being well curried. The sow, although our standard of comparison for dirt, is not deserving of this character. It is invariably clean, wherever it is possible for it to be so; and its bad reputation arises from its master leaving it no sphere of existence except dunghills and other receptacles of filth. In a stable-yard where there is abundance of clean straw, the sleeping-place of the sow is unsoiled, and it makes great efforts to preserve it in this condition.

Again—you will find that in a state of nature there has been imposed on the inferior animals, in acquiring their food, a degree of labour, which amounts to regular exercise of their corporeal functions. And, lastly, their food has been so adjusted to their constitutions, that they are well nourished, but very rarely rendered sick through surfeit, or the bad quality of what they eat. I speak always of animals in a state of nature. The domestic cow which has stood in a house for many months, when first turned into a clover field, is sometimes guilty of committing a surfeit; but she would not do so if left on the hill-side, and allowed to pick up her food by assiduous exertion. The animals, I repeat, are impelled directly by the Creator to act in the manner now described; and when we study their organization, and see what is necessary to preserve it in health and enjoyment, we cannot fail greatly to admire the wisdom and benevolence displayed in their habits and constitution.

Man differs from the brutes in this—that instead of blind instincts, he is furnished with reason, which enables him to

study himself, the external world, and their mutual relations; and to pursue the conduct which these point out as beneficial. It is by examining the structure, modes of action, and objects, of the various parts of his constitution, that man discovers what his duties of performance and abstinence in regard to health really are. This proposition may be illustrated in the following manner: The skin has innumerable pores and serves as an outlet for the waste particles of the body. The quantity of noxious matter excreted through these pores in twenty-four hours is, on the very lowest estimate, about twenty-four ounces. If the passage of this matter be obstructed, so that it is retained in the body, the quality of the blood is deteriorated by its presence, and the general health, which greatly depends on the state of the blood, suffers. The nature of perspired matter is such, that it is apt, in consequence of the evaporation of its watery portion, to be condensed and clog the pores of the skin; and hence the necessity for washing the surface frequently, so as to keep the pores open and allow the perspiration to be freely performed. The clothing, moreover, must be so porous and clean, as readily to absorb and allow a passage to the matter perspired, otherwise the same result ensues as from the impurity of the skin, namely, the obstruction of the process of perspiration. Nor is this all. The skin is an absorbing as well as an excreting organ, so that foreign substances in contact with it are sucked into its pores and introduced into the blood. When cleanliness is neglected, therefore, the evil consequence is twofold; first, the pores, as we have seen, are clogged, and the perspiration obstructed; and, secondly, part of the noxious matter left on the skin or clothing, is absorbed into the system, where it produces hurtful effects. From such an exposition of the structure and functions of the skin, the necessity for cleanliness of person and clothing becomes abundantly evident; and the corresponding duty of cleanliness is more likely to be performed by those who know the preceding details, than by persons who are impelled to performance by bare injunctions. In some parts of the east ablution of the body is justly regarded as a duty of religion: but it needs not to be told how extensively this duty is neglected in our own country. When men become enlightened, a warm bath, once a week at least, will be considered one of the necessaries of life: those who are in the

habit of keeping their skin in a proper condition, by means of bathing and friction, will bear testimony to the increase of comfort and activity which is thus secured.

I might, in like manner, describe the structure and modes of action of the bones, muscles, bloodvessels, nerves, and brain; and demonstrate to you that the necessity of bodily and mental labour, of temperance, of attention to ventilation, clothing, and lodging, and of a great variety of other observances, is written by the finger of God in the frame-work of our bodies. This, however, belongs to physiology; and here I assume that you have studied and understand the leading facts of that subject. I limit myself to two observations. *First*, Exercise of the bones and muscles is labour; and labour, instead of being a curse to man, is a positive source of his well-being and enjoyment. It is only excessive labour that is painful; and in a well ordered community there would be no necessity for such exertion as would be painful. *Secondly*, Exercise of the brain is mental activity, either intellectual, or moral, or animal, according to the faculties which we employ. Mental inactivity, therefore, implies inactivity of the brain; and as the brain is the fountain of nervous energy to the whole system, the punishment of neglecting its exercise is great and severe —namely, feelings of lassitude, uneasiness, fear, and anxiety; vague desires, sleepless nights, and a general consciousness of discomfort, with incapacity to escape from suffering; all which poison life at its source and render it thoroughly miserable. Well regulated mental activity, combined with due bodily exercise, on the other hand, is rewarded with gay, joyous feelings, an inward alacrity to discharge all our duties, a good appetite, sound sleep, and a general consciousness of happiness that causes days and years to fleet away without leaving a trace of physical suffering behind.

While moderate and proportionate exercise of all the bodily and mental functions is essential to health, it is equally indispensable to shun over-exertion and excessive mental excitement, if we desire to preserve this invaluable blessing. Owing to the constitution of British society, it is extremely difficult to avoid, in our habitual conduct, one or other of the extremes of indolence and over-exertion. Many persons, born to wealth, have few motives to exertion; and such individuals, particularly females, often suffer grievously in their health and happiness from want of rational

pursuits, calculated to excite and exercise their bodies and minds. Others, again, who do not inherit riches from their ancestors, are tempted to overwork themselves in acquiring them; an expensive style of living is so general as to be felt by many to be almost unavoidable; and to support it, they labour so incessantly that almost no leisure remains for the cultivation of their moral and intellectual powers, and for that repose of mind, and exercise of body, which are indispensable to health. Hence arise indigestion and other diseases: and many, even after they have succeeded in acquiring wealth, feel uncomfortable and discontented How many of us, after beginning our labours long before the sun at this season dawns upon our city, find it difficult to snatch even this late hour, at which we now assemble, from our pressing and yet unfulfilled business engagements! The same state of society exists in the United States of America, and the same effects ensue. Dr. Caldwell, one of the ornaments of that country, in his work on Physical Education, introduces some excellent remarks on the tendency of the embroilment of party politics and religious differences to over-excite the brain and produce insanity, and also dyspepsia or indigestion, which, says he, is more nearly allied to insanity than is commonly supposed. "So true is this," he adds, "that the one is not unfrequently converted into the other, and often alternates with it. The lunatic is usually a dyspeptic during his lucid intervals; and complaints, which begin in some form of gastric derangement, turn, in many instances, to madness. Nor is this all. In families where mental derangement is hereditary, the members who escape that complaint are more than usually obnoxious to dyspepsia. It may be added, that dyspeptics and lunatics are relieved by the same modes of treatment, and that their maladies are induced, for the most part, by the same causes." The passions of grief, jealousy, anger, and envy, impair the digestive power; and dyspepsia is often cured by abandoning care and business, and giving rest to the brain. It is chiefly for this reason that a visit to a watering-place is so beneficial. The agitations of commercial speculation and too eager pursuit of wealth, have the same effect with party politics and religious controversy in over-exciting the brain; and "hence, in all probability, the inordinate extent of insanity and indigestion in Britain, and still more in the United States."

In opposition to these obvious dictates of reason, two objections are generally urged. The first is, that persons who are always taking care of their health, generally ruin it; their heads are filled with hypochondriacal fancies and alarms, and they become habitual valetudinarians. The answer to this objection is, that all such persons are already valetudinarians before they begin to experience the anxiety about their health here described; they are already nervous or dyspeptic, the victims of a morbid uneasiness of mind, which, for want of other objects, is at last directed toward the state of their health. They are essentially in the right, however, as to the main cause of their distress, for their anxiety certainly does proceed from disorder of their organic functions. Their chief error lies in this, that their care of health proceeds from an anxiety without knowledge, and leads to no beneficial result. They take quack medicines, or follow some foolish observances, instead of subjecting themselves patiently and perseveringly to a regimen in diet, and a regular course of exercise, amusement, and relaxation —the remedies dictated by the organic laws. This last procedure alone is what I call taking care of health; and I have never seen any human being become an invalid or a hypochondriac from adopting it. On the contrary, I have known many individuals who, in consequence of this rational obedience to the organic laws, have ceased to suffer under the maladies which previously attacked them.

The second objection is, that many persons live in sound health to a good old age, who never take any care of themselves at all; whence it is inferred that the safest plan is to follow their example and act on all occasions as impulse prompts, never doubting that our health, if we pursue this manly course, will take care of itself. In answer to this objection I observe, that constitutions differ widely in the amount of their native stamina, and consequently in the extent of tear and wear and bad treatment which they are able to sustain without being ruined; and that for this reason, one individual may be comparatively little injured by a course of action which would prove fatal to another with a feebler natural frame.

The grand principle of the philosophy which I am now teaching is, that the natural laws really admit of no exceptions, and that specific causes, sufficient to account for the apparent exception, exist in every instance. Some of these

individuals may have enjoyed very robust constitutions, which it was difficult to subvert: others may have indulged in excesses only at intervals, passing an intermediate period in abstinence, and permitting the powers of nature to re-adjust themselves and recover their tone, before they committed a new debauch; while others may have led an extremely active life, passing much of their time in the open air; a mode of action which enables the constitution to withstand a greater extent of intemperance than it can resist with sedentary employment. But of one and all of these men we may safely affirm, that if they had obeyed the organic laws, they would have lived still longer and more happily than they did by infringing them: and in the course of my own observations, I have never seen an example of an individual who perseveringly proceeded in a course of intemperance, either sensual or mental—that is, who habitually overtasked his stomach or his brain—who did not permanently ruin his health, usefulness, and enjoyment; I therefore cannot believe in the supposed exceptions to the organic laws.

One source of error on this subject may be traced to the widely prevailing ignorance which exists regarding the structure and functions of the body; in consequence of which, danger is frequently present, although it may be unknown to those who thus unthinkingly expose themselves to its approach. If you have marked a party of young men proceeding in a boat on a pleasure-sail in the Frith of Forth, every one of whom is unacquainted with the currents, sand-banks, and rocks, visible and invisible, with which the Frith is studded, you may have seen them all gay, alert, full of fun and frolic; and if the day was calm and the sea smooth, you may have observed them return in the evening well and happy, and altogether unconscious of the dangers to which their ignorance had exposed them. They may repeat the experiment, and succeed, by a fortunate combination of circumstances, again and again; but how different would be the feelings of a prudent and experienced pilot, who knew every part of the channel, and who saw that on one day they had passed within three inches of a sunken rock, on which, if they had struck, their boat would have been smashed to pieces; on another, had escaped by a few yards a dangerous sand-bank; and on a third, had, with great difficulty, been able to extricate themselves from a current

which was rapidly carrying them on a precipitous and rocky shore. The pilot's anxiety would probably be fully justified at length, by the upsetting of the boat in a squall, its destruction in a mist, or its driving out to sea when the wind aided an adverse current.

This is not an imaginary picture. In my own youth, I happened to form one of such an inconsiderate party. The wind rose on us, and all our strength applied to the oars scarcely sufficed to enable us to pull round a point of rock, on which the sea was beating with so much force, that, had we struck on it, our frail bark would never have withstood a second shock. Scarcely had we escaped this danger, when we ran right in the way of a heavy man-of-war's boat, scudding at the rate of ten miles an hour before the wind, and which would have run us down, but for the amazing promptitude of her crew, who in an instant extended twenty brawny arms over the side of their own boat, seized ours, and held it above the water by main force, till they were able to clear away by our stern. The adventure was terminated by our being picked up by a revenue cutter, and brought safely into Leith harbour at a late hour in the evening. I have reflected since on the folly and presumptuous confidence of that excursion; but I never was aware of the full extent of the danger, until, many years subsequently, I saw a regular chart of the Frith, in which the shoals, sunken rocks, and currents were conspicuously laid down for the direction of pilots who navigate these waters.

Thus it is with rash, reckless, ignorant youth in regard to health. Each folly or indiscretion that, through some combination of fortunate circumstances, has been committed without immediate punishment, emboldens them to venture on greater irregularities, until, in an evil hour, they are caught in a violation of the organic laws that consigns them to the grave. Those who have become acquainted with the structure, functions, and laws of the vital organs, see the conduct of these blind adventurers on the ocean of life, in the same light that our youthful voyage appeared to me after I had become acquainted with the chart of the Frith. There is an unspeakable difference between a belief in safety founded only on utter ignorance of the existence of danger, and that which arises from a knowledge of all the sunken rocks and eddies in the stream, and from a practical pilot's skill in steering clear away from them all. The pilot

is as gay and joyous as they; but his joy arises from assurance of safety; theirs from ignorance of danger. He is cheerful, yet always observant, cautious, and alert. They are happy, because they are unobservant and heedless When danger comes, he shuns it by his skill, or meets and conquers it. They escape it by accident, or perish unwittingly in a moment.

The last observation which I make on this head is, that, in regard to health, Nature may be said to allow us to run an account-current with her, in which many small transgressions seem at the time to be followed by no penalty, when, in fact, they are all charged to the debit side of the account, and, after the lapse of years, are summed up and closed by a fearful balance against the transgresser. Do any of you know individuals, who, for twenty years, have persevered in frequent feastings, who all that time have been constant diners out or diners at home, or the soul of convivial meetings, prolonged into far advanced hours of the morning, and who have resisted every warning and admonition from friends, and proceeded in the confident belief that neither their health nor strength was impaired by such a course? Nature kept an account-current with such men. She had, at first, placed a strong constitution and vigorous health to their credit, and they had drawn on it day by day, believing that, because she did not instantly strike the balance against them and withdraw her blessing, she was keeping no note of their follies. But mark the close. At the end of twenty years, or less, you will find them dying of palsy, apoplexy, water in the chest, or some other disease clearly referable to their protracted intemperance; or, if they escape death, you will see them become walking shadows, the ghosts of their former selves—in short, the beacons set up by Nature to warn others that she does not in any instance permit her laws to be transgressed with impunity. If sedulous instruction in the laws of health would not assist the reason and moral and religious feelings of such persons to curb their appetites, and avoid these consequences, they must be reckless indeed. At least, until this shall have been tried and failed, we should never despair, nor consider their case and condition as beyond the reach of improvement.

It must be allowed, however, that the dangers arising to health from improper social habits and arrangements, cannot

be altogether avoided by the exertions of individuals acting singly in their separate spheres. I shall have occasion, hereafter, in explaining the social law, to point out that the great precept of Christianity (that we must love our neighbours as ourselves) is inscribed in every line of our constitution; and that, in consequence, we must render our neighbours as moral, intelligent, and virtuous as ourselves, before we can reap the full reward even of our own knowledge and attainments. As an example in point, I observe, that if there be among us any one merchant, manufacturer, or lawyer, who feels, in all its magnitude and intensity, the evil of an overstrained pursuit of wealth; yet he cannot, with impunity, abridge his hours of toil, unless he can induce his rivals to do so also. If they persevere, they will outstrip him in the race of competition and impair his fortune. We must, therefore, produce a general conviction among the constituent members of society, that Providence forbids that course of incessant action which obstructs the path of moral and intellectual improvement, and leads to mental anxiety and corporal suffering, and induce them, by a simultaneous movement, to apply an effectual remedy in a wiser and better distribution of the hours of labour, relaxation, and enjoyment. Every one of us can testify, that this is *possible*, so far as the real, necessary, and advantageous business of the world is concerned; for we perceive that, by a judicious arrangement of our time and our affairs, all necessary business may be compressed within many fewer hours than we now dedicate to that object, so as to allow us a reasonable space for mental cultivation, exercise, and amusement. I should consider eight hours a day an ample allowance of time for business and labour: this would allow us eight hours more for enjoyment, and eight for repose, a distribution that would cause life to flow more cheerfully, agreeably, and successfully, than it can do under our present system of ceaseless competition and toil.

It appears, then, from the foregoing considerations, that the study and observance of the laws of health is a *moral* duty; this conduct being clearly revealed by our very constitution as the will of God, and being, moreover, necessary to the due discharge of all our other duties. We rarely hear from divines an exposition of the duty of preserving health, founded on our natural constitution; because they confine themselves to what the Scriptures contain. The

Scriptures, in prescribing sobriety and temperance, moderation and activity, clearly coincide with the natural law on this subject: but we ought not to study the former to the exclusion of the latter; for, by learning the structure, functions, and relations of the human body, we are rendered more fully aware of the excellence of the scriptural precepts, and obtain new motives to observe them in our perception of the punishments by which, even in this world, the breach of them is visited. Why the exposition of the will of God, when strikingly written in the book of nature, should be neglected by divines, is explicable only by the fact, that when the present standards of theology were framed, that book was sealed and its contents were unknown. We cannot, therefore, justly blame our ancestors for the omission; but it is not too much to hope that modern divines may take courage and supply the deficiency I believe that many of them are inclined to do so, but are afraid of giving offence to the people. By teaching the people to regard all natural institutions as divine, because they proceed from the Creator, this obstacle to improvement may, in time, be removed, and religion may be brought to lend her powerful aid in enforcing obedience to the natural laws.

In my Introductory Lecture, I explained that Veneration, as well as the other moral sentiments, is merely a blind feeling, that needs to be directed by knowledge. In that lecture I alluded to the case of an English lady, who had all her life been taught to regard Christmas and Good Friday as holy, and who was greatly shocked at perceiving them, on her first arrival in Edinburgh, to be desecrated by ordinary business. Her Veneration had been trained to regard them as sanctified days; and she could not immediately divest herself of pain at seeing them treated without any religious respect. I humbly propose, that in a sound education, the sentiment of Veneration should be directed to all that God has really instituted. If the structure and functions of the body were taught to youth, as God's workmanship, and the duties deducible from them were clearly enforced as his commands, the mind would feel it to be sinful to neglect or violate them; and a great additional efficacy would thereby be given to our precepts of exercise, cleanliness, and temperance. Such instruction would come home to youth, enforced by the perceptions of the understanding, and by the emotions of the moral sentiments

and they would be practically confirmed by the experience of pleasure from observance, and pain from infringement of them. The young, in short, would be taught to trace their duty to its foundation in the will of God, to discover that it is addressed to them as rational beings: at the same time, they would learn that this is no vain philosophy; for they would speedily discern the Creator's hand rewarding them for obedience, and punishing them for transgression.

As closely connected with health, I proceed to consider the subject of amusements, regarding which much difference of opinion prevails. When we have no true philosophy of mind, this question becomes altogether inextricable; because every individual disputant ascribes to human nature those tendencies, either to vice or virtue, which suit his favourite theory, and then he has no difficulty in proving that amusements either are, or are not, necessary and advantageous to a being so constituted. Phrenology gives us a firmer basis. As formerly remarked, man cannot make and unmake mental organs, nor vary their functions and laws of action to suit his different theories and views.

I observe, then, that every mental organ, by frequent and long-continued action, becomes fatigued, just as the muscles of the leg and arm become weary by long-protracted exertion. Indeed, it cannot be conceived that the mind, except in consequence of the interposition of organs, is susceptible of fatigue at all. We can comprehend that the vigour of the fibres of the organ of Tune may become exhausted by a constant repetition of the same kind of action, and demand repose; while the idea of an immaterial spirit becoming weary is altogether inconceivable.

From this law of our constitution, therefore, it is plain that variety of employment is necessary to our welfare, and was intended by the Creator. Hence he has given us a plurality of faculties, each having a separate organ, so that some may rest, while others are actively employed. Among these various faculties and organs, there are several which appear obviously destined to contribute to our amusement; a circumstance which (as Addison has remarked) "sufficiently shows us that Providence did not design this world should be filled with murmurs and repinings, or that the heart of man should be involved in gloom and melancholy." We have received a faculty of the ludicrous, which, when active, prompts us to laugh and to excite laughter

in others: We have received organs of Tune and Time, which inspire us with the desire, and give us the talent, to produce music. Our organs of voluntary motion are so connected with these organs, that when we hear gay and vivacious music played in well marked time, we instinctively desire to dance; and when we survey the effect of dancing on our corporeal frame, we discover that it is admirably calculated to promote the circulation of the blood and nervous influence all over the body, and thereby to strengthen the limbs, the heart, the lungs, and the brain; in short, to invigorate the health, and to render the mind alert, cheerful, and happy. To such of my audience as have not studied anatomy and physiology, and who are ignorant of the functions of the brain, these propositions may appear to be mere words or theories; but to those who have made the structure, functions, relations, and adaptations of the various organs a subject of careful study and contemplation, I feel assured that they will appear in the light of truths. If such they are, our constitution proves that amusement has been kindly intended for us by the Creator, and that therefore, in itself, it must be not only harmless, but absolutely beneficial.

In this, as in everything else, we must distinguish between the use and abuse of natural gifts. Because some young men neglect their graver duties through an excessive love of music, some parents denounce music altogether as dangerous and pernicious to youth; and because some young ladies think more earnestly about balls and operas than about their advancement in moral, intellectual, and religious attainments, there are parents who are equally disposed to proscribe dancing. But this is as irrational as if they should propose to prohibit eating because John or Helen had been guilty of a surfeit. These enjoyments in due season and degree are advantageous, and it is only sheer ignorance and impatience that can prompt any one to propose their abolition.

The organs of Intellect, combined with Secretiveness, Imitation, and Ideality, confer a talent for acting, or for representing by words, looks, gestures, and attitudes, the various emotions, passions, and ideas of the soul; and these representations excite the faculties of the spectators into activity in a powerful and pleasing manner. Farther, the Creator has bestowed on us organs of Constructiveness, Form, Size, Locality, and Colouring, which, combined with

Imitation and Ideality, prompt us to represent objects in statuary or painting; and these representations also speak directly to the mind of the beholder and fill it with delightful emotions. Here, then, we trace the origin of the stage and of the fine arts directly to nature. Again, I am forced to remark, that to those individuals who have not studied phrenology and seen evidence of the existence and functions of the organs here enumerated, this reference of the fine arts, and of the drama in particular, to nature, or, in other words, to the intention of the Creator, will appear unwarranted, perhaps irreverent or impious. To such persons I reply that, having satisfied myself by observation that the organs *do* exist, and that they produce the effects here described, I cannot avoid the conclusion in question; and in support of it I may refer also to the existence of the stage, and to the delight of mankind, in all ages and all civilized countries, in its representations.

If, therefore, the faculties which produce the love of the stage and the fine arts have been instituted by the Creator, we may rely on the inference that these have legitimate, improving, and exalting objects; although, like our other gifts, they may be abused. The line of demarcation between their use and abuse may be distinguished by a moderate exercise of judgment. They are in themselves mere arts of representation and expression, a species of natural language, which may be made subservient to the gratification of the propensities, or of the moral and intellectual faculties. We may represent in statuary, on canvass, or on the stage, lascivious and immoral objects calculated to excite all the lower feelings of our nature; and this is a disgraceful abuse: but we may also body forth scenes and objects calculated to excite, and by exciting to strengthen, the moral, religious, and intellectual powers, and to carry forward our whole being in the paths of virtue and improvement; and this is the legitimate use of these gifts of God.

The applications made of these powers, by particular nations or individuals, bear reference to their general mental condition. The ancient Greeks and Romans enjoyed very immoral plays, and also fights of gladiators and combats of wild beasts, in which men and animals tore each other to pieces, and put each other to death. Such scenes were the direct stimulants of Amativeness, Combativeness, and Destructiveness, and proclaim to us more forcibly than

the pages of the most eloquent, veracious, and authentic historians, that these nations, with all their boasted refinement, were essentially barbarians, and that the moral sentiments had not attained any important ascendency in the great mass of the people. In the days of Queen Elizabeth and Charles the Second, plays of a very indelicate character were listened to by the nobles and common people of Britain, without the least expression of dissatisfaction: and this indicated a general grossness of feeling, and of manners, to be prevalent among them. Even in our own day we go to be spectators of plays of very imperfect morality and questionable delicacy; and the same conclusion follows, that there still lurks among us no small portion of active animal propensity, and that the moral and intellectual faculties have not yet achieved the full conquest over our animal nature. But in these instances there is an evident progression toward a more legitimate use of our native powers of amusement; and I conclude from this fact, as well as from the powers having been bestowed by the Creator, that future generations will carry their applications to still higher and more useful objects. Nor is it too enthusiastic to hope, that some future Shakspeare, aided by the true philosophy of mind, and a good knowledge of the natural laws according to which good and evil are dispensed in the world, may yet teach and illustrate the philosophy of human life, with all the power and efficacy which lofty genius can impart; and that a future Kemble or Siddons may proclaim such lessons in living speech and gestures to mankind. By looking forward to possibilities like these, we are enabled to form some notion of the legitimate objects for which a love of the stage was given, and of the improvement and delight of which it may yet be rendered the instrument.

If there be any truth in the principles on which these remarks proceed, we cannot avoid lamenting that helpless (although well meaning and amiable) imbecility which, alarmed at the abuses of amusements, decries them altogether. A few days ago, (December, 1835,) we saw an announcement in the public papers that the ladies directresses of the House of Industry of Edinburgh had declined to accept of money drawn at Mr. Cooke's circus for the benefit of that charity, because it was against their principles to countenance public amusements. If I am warranted in saying that the Creator has constituted our minds and bodies to be

benefited by amusements, has given us faculties specially destined to produce and enjoy amusement, and has assigned a sphere of use and abuse to these faculties as well as to all others; it is clearly injudicious in the amiable, the virtuous, the charitable, and the religious—in persons meriting our warmest sympathy and respect—to place themselves in an attitude of hostility, and of open and indiscriminate denunciation, against amusements founded on the laws of our common nature. Instead of bringing all the weight of their moral and intellectual character to bear upon the improvement and beneficial application of these institutions, as it is obviously their duty both to God and to society to do, they fly from them as pestilential, and leave the direction of them exclusively to those whom they consider fitted only to abuse them. This is an example of piety and charity smitten with a moral paralysis through ignorance, and with a fatal cowardice through want of discipline. In urging you to "try all things," and to distinguish between the uses and abuses of every gift, my ambition is to give you courage to *maintain virtue*, as well as *knowledge to distinguish it;* to render you bold in advocating what is right, and to induce you, while there is an inch of reason and morality left to rest upon, never to abandon the field, whether of duty, instruction, or amusement, to those whom you consider the enemies of human happiness and virtue. Let us correct all our institutions, but not utterly extinguish any that are founded in nature.

LECTURE V.

ON THE DUTIES OF MAN AS A DOMESTIC BEING.

Origin of the domestic affections—Marriage, or connexion for life between the sexes, is natural to man—Ages at which marriage is proper—Near relations in blood should not marry—Influence of the constitution of the parents on the children—Phrenology, as an index to natural dispositions, may be used as an important guide in forming matrimonial connexions—Some means of discovering natural qualities prior to experience, is needed in forming such alliances, because after marriage experience comes too late.

THE previous lectures have been devoted to the duties incumbent on man strictly as an individual; namely, the duties of acquiring knowledge and preserving his health.

My reason for thus limiting his individual duties is, that I consider man essentially as a social being, and that, with the exception of his duties to God, which we shall subsequently consider, he has no duties, as an individual, beyond those I have mentioned, any more than a particular wheel of a watch has functions independently of performing its part in the general movements of the machine. I mean by this, that although man subsists and acts uniformly as an individual, yet his faculties bear reference to other beings as their objects, and show that his proper sphere of life and action is in the society of these beings. You could not conceive a bee, with its present instincts and powers of co-operation, to be happy if it were established in utter loneliness, the sole occupant of an extensive heath or flower-bespangled meadow. In such a situation it might have food in abundance, and scope of action for such of its faculties as related only to itself; but its social instincts would be deprived of their objects and natural spheres of action.

This observation is applicable also to man. His faculties bear reference to other beings, and show that in their society Nature has intended him to live and act. His duties *as a member of the social body* are now to be treated of; and first, his duties as a *domestic being*.

The domestic character of man is founded on, or arises from, the innate faculties of Amativeness, Philoprogenitiveness, and Adhesiveness.* These give him a desire for a companion of a different sex, for children, and for the society of human beings in general. Marriage results from the combination of these three faculties with the moral sentiments and intellect, and is thus a natural institution.

Some persons conceive that marriage, or union for life, is a yoke imposed upon man by the ecclesiastical or civil law only. This idea is erroneous. Where the organs above enumerated are *adequately* and *equally* possessed, and the moral and intellectual faculties predominate, marriage is a natural institution. It prevailed among the ancient Greeks and Romans, and exists among the Chinese and many other nations who have not embraced either Judaism or Christianity. Indeed marriage, or living in society for life, is not peculiar to man. The fox, martin, wild cat, mole, eagle,

* Dr. Vimont says that there is a special organ, next to Philoprogenitiveness, giving a desire for union for life.

sparrow-hawk, pigeon, swan, nightingale, sparrow, swallow, and other creatures, unite in pairs for life.* After the breeding season is past, they remain in union; they make their expeditions together, and if they belong to animals which live in herds, the spouses remain always near each other.

It is true that certain individuals find the marriage tie a restraint, and would prefer that it should be abolished; also that some tribes of savages may be found, among whom it can scarcely be said to exist. But if we examine the heads of such individuals and tribes, we shall find that Amativeness greatly predominates in size over Adhesiveness and the Moral Sentiments; and such individuals are not proper standards by which human nature should be estimated. Viewing marriage as the result of man's constitution, we ascribe to it a divine origin. It is a law written in our minds; and, like all other divine institutions, it is supported by rewards and punishments peculiar to itself. The reward attached to it, is enjoyment of some of the purest and best pleasures of which our nature is susceptible; and the punishment inflicted for inconstancy in it, is moral and physical degradation.

Among the duties incumbent on the human race in relation to marriage, one is, that the parties to it should not unite before a proper age. The civil law of Scotland allows females to marry at twelve, and males at fourteen; but the law of nature is widely different. The female frame does not, in general, arrive at its full vigour and perfection, in this climate, earlier than twenty-two, nor the male earlier than twenty-four to twenty-six. Before these ages, maturity of physical strength and of mental vigour is not, in general, attained, and the individuals, with particular exceptions, are neither corporeally nor mentally prepared to become parents, or to discharge, with advantage, the duties of heads of a domestic establishment. Their animal propensities are strong, and their moral and intellectua organs have not yet attained their full development. Children born of such young parents are inferior in the size and quality of their brains, to children born of the same parents when arrived at maturity. Such children, having inferior brains, are inferior in dispositions and capacity. It is a common remark, that the eldest son of a rich family is gene-

* Gall on the Functions of the Brain. vol. iii. p. 482.

rally not equal to his younger brothers in mental ability; and this is ascribed to his having relied on his hereditary fortune for his subsistence, and not exerted himself in obtaining education: but you will very generally find, in such cases, that the parents, or one of them, married in extreme youth, and that the eldest child inherits the imperfections of their immature condition.

The statement of the evidence and consequences of this law belongs to physiology: here I can only remark, that if the Creator has prescribed ages, previous to which, marriage is punished by him with evil consequences, we are bound to pay deference to his enactments; and that civil and ecclesiastical laws, when standing in opposition to his, are not only absurd, but mischievous. Conscience is misled by these erroneous human enactments; for a girl of fifteen has no idea that she sins, if her marriage be authorized by the law and the church. In spite, however, of the sanction of acts of parliament and of clerical benedictions, the Creator punishes severely if his laws be infringed. His punishments assume the following, among other forms:

The parties, being young, ignorant, inexperienced, and actuated chiefly by passion, often make unfortunate selections of partners, and entail lasting unhappiness on themselves.

They transmit imperfect constitutions and inferior dispositions to their earliest born children. And

They often involve themselves in pecuniary difficulties, in consequence of a sufficient provision not having been made before marriage.

These punishments, being inflicted by the Creator, indicate that his law has been violated; in other words, that marriage at a too early age is positively sinful.

There ought not to be a very great disparity between the ages of the husband and wife. There is a physical and mental condition naturally attendant on each age, and persons whose organs are in corresponding conditions sympathize in their feelings, judgments, and pursuits, and therefore form suitable companions for each other. When the ages are widely different, this sympathy is wanting, and the offspring also is injured. In such instances, it is generally the husband who transgresses; old men are fond of marrying young women. The children of such unions often suffer grievously from the disparity. The late Dr. Robert Mac

nish, in a letter addressed to me, gives the following illustration of this remark: "I know," says he, "an old gentleman, who has been twice married. The children of his first marriage are strong, active, healthy people, and their children are the same. The offspring of his second marriage are very inferior, especially in an intellectual point of view; and the younger the children are, the more is this obvious. The girls are superior to the boys, both physically and intellectually. Indeed, their mother told me that she had great difficulty in rearing her sons, but none with her daughters. The gentleman himself, at the time of his second marriage, was upward of sixty, and his wife about twenty-five. This shows very clearly that the boys have taken chiefly off the father and the daughters off the mother."

Another natural law in regard to marriage is, that the parties should not be related to each other in blood. This law holds good in the transmission of all organized beings. Even vegetables are deteriorated, if the same stock be repeatedly planted on the same ground. In the case of the lower animals, a continued disregard of this law is almost universally admitted to be detrimental, and human nature affords no exception to the rule. It is written in our organization, and the consequences of its infringement may be discovered in the degeneracy, physical and mental, of many noble and royal families, who have long and systematically set it at defiance. Kings of Portugal and Spain, for instance, occasionally apply to the Pope for permission to marry their nieces. The Pope grants the dispensation; and the marriage is celebrated with all the solemnities of religion. The blessing of heaven is invoked on the union.

The real power of his Holiness, however, is here put to the test. He is successful in delivering the king from the censures of the church, and the offspring of the marriage from the civil consequences of illegitimacy; but the Creator yields not one jot or tittle of his law. The union is either altogether unfruitful, or children miserably constituted in body, and imbecile in mind, are produced; and this is the form in which the Divine displeasure is announced. The Creator, however, is not recognised by his Holiness, nor by priests in general, nor by ignorant kings, as governing, by fixed laws, in the organic world. They proceed as if their own power were supreme. Even when they have tasted the bitter consequences of their folly, they are far

from recognising the cause of their sufferings. With much self-complacency, they resign themselves to the events, and seek consolation in religion. "The Lord giveth," say they, "and the Lord taketh away, blessed be the name of the Lord;" as if the Lord did not give men understanding, and impose on them the obligation of using it to discover his laws and obey them; and as if there were no impiety in shutting their eyes against his laws, in pretending to dispense with them, and finally, when they are undergoing the punishment of such transgressions, in appealing to Him for consolation.

It is curious to observe the enactments of legislators on this subject. According to the *Levitical* law, which we in this country have adopted, "marriage is prohibited between relations within *three* degrees of kindred, computing the generations through the common ancestor, and accounting affinity the same as consanguinity. Among the *Athenians*, brothers and sisters of the half-blood, if related by the father's side, might marry; if by the mother's side, they were prohibited from marrying. The same custom," says Paley, "probably prevailed in *Chaldea*, for Sarah was Abraham's half-sister. 'She is the daughter of my father,' says Abraham, 'but not of my mother; and she became my wife.' Gen. xx. 12. The *Roman* law continued the prohibition without limits to the descendants of brothers or sisters."*

Here we observe Athenian, Chaldean, and Roman legislators prohibiting or permitting certain acts, apparently according to the degree of light which had penetrated into their own understandings concerning their natural consequences. The real divine law is written in the structure and modes of action of our bodily and mental constitutions, and it prohibits the marriage of all blood-relations, diminishing the punishment, however, according as the remoteness from the common ancestor increases, but allowing marriages among relations by affinity, without any prohibition whatever. According to the law of Scotland, a man may marry his cousin-german, or his *great* niece, both of which connexions the law of nature declares to be inexpedient; but he may not marry his deceased wife's sister, against which connexion Nature declares no penalty whatever. He might have married either sister at first without impropriety, and there is no reason *in nature*, why he may no

* Paley's Moral Philosophy, p. 228.

marry them in succession, the one after the other has died. There may be other reasons of expediency for prohibiting this connexion, but I mean to say that the organic laws contain no denunciations against it.

In Scotland the practice of full cousins marrying is not uncommon, and you will meet with examples of healthy families born of such unions; and from these an argument is maintained against the existence of the natural law which we are now considering. But it is only when the parents have both had excellent constitutions that the children do not attract attention by their imperfections. The first alliance against the natural laws brings down the tone of the organs and functions, say one degree; the second two degrees, and the third three; and the perseverance in transgression ends in glaring imperfections, or in extinction of the race. This is undeniable, and proves the reality of the law. The children of healthy cousins are not so favourably organized as the children of the same parents, if married to equally healthy partners, not at all related in blood, would have been. If the cousins have themselves inherited indifferent constitutions, the degeneracy is striking even in their children. We may err in interpreting Nature's laws, but if we do discover them in their full import and consequences, we never find exceptions to them.

Another natural law relative to marriage is, that the parties should possess sound constitutions. The punishment for neglecting this law is, that the transgressors suffer pain and misery in their own persons, from bad health, perhaps become disagreeable companions to each other, feel themselves unfit to discharge the duties of their condition, and transmit feeble constitutions to their children. They are also exposed to premature death; and hence their children are liable to all the melancholy consequences of being left unprotected and unguided by parental experience and affection, at a time when these are most needed. The natural law is, that a weak and imperfectly organized frame transmits one of a similar description to offspring; and, the children inheriting weakness, are prone to fall into disease and die. Indeed, the transmission of various diseases, founded in physical imperfections, from parents to children, is a matter of universal notoriety; thus, consumption, gout, scrofula, hydrocephalus, rheumatism, and insanity, are well known to descend from generation to generation. Strictly

speaking, it is not *disease* which is transmitted, but organs of such imperfect structure, that they are unable to perform their functions properly, and so weak that they are easily put into a morbid condition by causes which sound organs could easily resist.

This subject also belongs to physiology. I have treated of it in the Constitution of Man, and it is largely expounded by Dr. A. Combe, in his work on physiology, and by many other authors. I trouble you only with the following illustrations which were transmitted to me by Dr. Macnish, who was induced to communicate them by a perusal of the Constitution of Man: "If your work," says he, "has no other effect than that of turning attention to the laws which regulate marriage and transmission of qualities, it will have done a vast service; for on no point are such grievous errors committed. I often see, in my own practice, the most lamentable consequences resulting from neglect of these laws. There are certain families which I attend, where the constitutions of both parents are bad, and where, when anything happens to the children, it is almost impossible to cure them. An inflamed gland, a common cold hangs about them for months, and almost defies removal. In other families, where the parents are strong and healthy, the children are easily cured of almost any complaint. I know a gentleman, aged about fifty, the only survivor of a family of six sons and three daughters, all of whom, with the exception of himself, died young, of pulmonary consumption. He is a little man, with a narrow chest, and married a lady of a delicate constitution and bad lungs. She is a tall, spare woman, with a chest still more deficient than his own. They have had a large family, all of whom die off regularly as they reach manhood and womanhood, in consequence of affections of the lungs In the year 1833, two sons and a daughter died within a period of ten months. Two still survive, but they are both delicate, and there can be no doubt, that, as they arrive at maturity, they will follow the rest. This is a most striking instance of punishment under the organic laws."

As to the transmission of mental qualities, I observe, that form, size, and quality of brain descend, like those of other parts of the body, from parents to children: and that hence dispositions and talents, which depend upon the condition of the brain, are transmitted also—a fact which has

long been remarked, both by medical authors and by observant men in general.

The constitution of the mother seems to exercise the chief influence in determining the qualities of the children, particularly where she is a woman possessing a fine temperament, a well organized brain, and in consequence an energetic mind. There is perhaps hardly an instance of a man of distinguished vigour and activity of mind, whose mother did not possess a considerable amount of the same endowments; and the fact of eminent men having so frequently children far inferior to themselves, is explicable by the circumstance, that men of talent often marry women whose minds are comparatively weak. When the mother's brain is *very* defective, the minds of the children are feeble. "We know," says the great German physiologist Haller, "a very remarkable instance of two noble females who got husbands on account of their wealth, although they were nearly idiots, and from whom this mental defect has extended for a century into several families, so that some of all their descendants still continue idiots in the fourth and even in the fifth generation."* In many families, the qualities of both father and mother are seen blended in the children. "In my own case," says a medical friend, "I can trace a very marked combination of the qualities of both parents. My father is a large-chested, strong, healthy man, with a large, but not active, brain; my mother was a spare, thin woman, with a high nervous temperament, a rather delicate frame, and a mind of uncommon activity. Her brain I should suppose to have been of moderate size. I often think that to the father I am indebted for a strong frame and the enjoyment of excellent health, and to the mother for activity of mind and excessive fondness for exertion." Finally, it often happens that the mental qualities of the father are transmitted to some of the children, and those of the mother to others.

It is pleasing to observe, that, in Wurtemberg, there are two excellent laws calculated to improve the moral and physical condition of the people, and which other states would do well to adopt. First, "It is illegal for any young man to marry before he is twenty-five, or any young woman before she is eighteen." Here the human legislator pays much more deference to the Divine Lawgiver, than he does

* Elem. Physiol. Lib. xxix., Sec. 2, § 8.

in our country. Secondly, "A young man, at whatever age he wishes to marry, must show to the police and the priest of the commune where he resides, that he is able, and has the prospect, to provide for a wife and family." This also is extremely judicious.

Another natural law in regard to marriage is, that the mental qualities and the physical constitutions of the parties should *be adapted to each other*. If their tastes, talents, and general habits harmonize, the reward is domestic felicity the greatest enjoyment of life. If these differ so widely as to cause jarring and collision, what ought to be the palace of peace and the mansion of the softest affections of our nature, becomes a theatre of war; and of all states of hostility, that between husband and wife is the most interminable and incurable, because the combatants live constantly together, and have all things in common.

The importance of this law becomes more striking when we attend to the fact, that, by ill assortment, not only are the parties themselves rendered unhappy, but their immoral condition directly affects the dispositions of their children It is a natural law in regard to marriage, that the effects even of temporary departures from the organic laws descend to offspring produced during that state, and greatly injure their constitution. Thus—children produced under the influence of inebriety, appear to receive an organization which renders them liable to a craving appetite for stimulating fluids. Children produced when the parents are depressed with misfortune and suffering under severe nervous debility, are liable to be easily affected by events calculated to induce a similar depression; children produced when the parents are under violent excitement of passion, inherit a constitution that renders them more liable to exhibit the same tendency: and hence, also, children produced when the parents are happy, moral, and under the excitement of the higher sentiments and intellect, inherit qualities of body and brain that render them naturally disposed to corresponding states of mind. I have stated various facts and authorities in support of these views in the "Constitution of Man," to which I refer. These phenomena are the result of the transmission to the children of the mental organs modified in size, combination, and condition, by the temporary condition of the parents. This law is subject to modifications from the influence of the hereditary qualities of the parents, but its real existence can hardly be doubted.

In my second lecture I laid down the principle that man's first duty as an individual is, to acquire knowledge of himself, of external nature, and of the will of God; and I beg your attention to the application of this knowledge when acquired. If these organic laws relative to marriage be really instituted by the Creator, and if reward and punishment be annexed to each of them, of what avail is it to know these facts abstractly, and to be aware that we have corresponding duties, unless we know those duties in detail, and are enabled to perform them? What we want is, such a knowledge of the human constitution as will carry home to the *understanding* and the *conscience* in youth the law of God, written in our frames, and its results. We want also the sanction of public sentiment, religion, and civil enactments, to enforce the observance of that law; and training, to render the observance of it habitual.

In regard to the original constitutions of individuals about to marry, the knowledge of this can be attained only by the study of the structure, functions, and laws of the body. If anatomy and physiology, and their practical application, formed branches of general education, we should be led to view this subject in all its importance, and, where our own skill was insufficient to direct us, we should call in higher experience. It is a general opinion that all such knowledge would be useless, because marriage is determined by fancy, liking, passion, interest, or similar considerations, but never by reason. Phrenology enables us to judge of the force of this objection. It shows that the impulses to marry come from the instinctive and energetic action of the three organs of the domestic affections. They are large, and come into vigorous activity in youth, and frequently communicate such an influence to the other mental powers, as to enlist them all for the time in their service. The operations of these faculties, when acting instinctively and blindly, are dignified with various poetic names, such as fancy, affection, love, and so forth. They are extremely interesting to young men and young women, and not a little mysterious; which quality adds much to their charms with many minds. But phrenology, without robbing them of one jot of their real fascinations, dispels the mystery and illusions, and shows them to us as three strong impulses, which will act either conformably to reason, or without its guidance, according as the understanding and moral sentiments are enlightened or left

in the dark. It shows us, moreover, disappointment and misery, in every form, and at every stage, as the natural consequence of defective guidance; while happiness of the most enduring and exalted description is the result of the wise and just direction of them.

Believing, as I do, that the Creator has constituted man a rational being, I am prepared to maintain that the very converse of this objection is the true view of human nature —namely, that average men, if *informed* and *trained*, could not avoid giving effect to the natural laws in forming marriages. I say average men; because phrenology reveals to us that some human beings are born with animal organs so large, and moral and intellectual organs so small, that they are the slaves of the propensities, and proof against the dictates of reason. These individuals, however, are not very numerous, and they are not average specimens of the race. If, therefore, before the organs of the domestic affections come into full activity, the youth of both sexes were instructed in the laws of the Creater relative to marriage; if the sanctions of religion were added to the obligation of these laws; and if the opinions of society were directed to enforcing them; I cannot conceive it possible that, in average men, the propensities would act in disregard of all these guides. The idea implies that man is *not* rational, and that the Creator has laid down laws for him which he is incapable, under any natural guidance, of obeying. This is absurd and incredible.

I have introduced these remarks, to prepare the way for the observation, that, before the discovery of phrenology, it was impossible to know well the mental dispositions and capacities of individuals prior to experience of them in actions, and that there was, therefore, a great difficulty in the way of selection, on sound principles, of partners really adapted to each other, and calculated to render each other happy in marriage. I know that a smile is sometimes excited when it is said that phrenology puts it in the power o individuals to act rationally in this respect, who could not be certain of doing so without its aid; but it is my firm conviction that it does so.

Not only is there nothing irrational in the idea that phrenology gives the power of obtaining the requisite knowledge, but, on the contrary, there would be a glaring defect in the moral government of the world, if the Creator had not pro-

vided means by which human beings could ascertain, with reasonable certainty, the mental dispositions and qualities of each other, before entering into marriage. He has prompted them, by the most powerful and fascinating of impulses, to form that connexion. He has withheld from them discriminating instincts, to enable them always to choose right; and yet he has attached tremendous penalties to their errors in selection. If he have not provided some means, suited to the rational nature of man, to enable him to guide his impulses to proper objects, I cannot conceive how his government can be reconciled to our notions of benevolence and justice. We must believe that he punishes us for not doing what he has denied us the capacity to do.

It is well known, that no method of discovering, with reasonable success, the natural dispositions of human beings has hitherto existed. The general intercourse of society, such as is permitted to young persons of different sexes before marriage, reveals, in the most imperfect manner, the real character; and hence the bitter mortification and lasting misery in which some prudent and anxious persons find themselves involved, after the blandishments of a first love have passed away, and when the inherent qualities of the minds of their partners begin to display themselves without disguise and restraint. The very fact that human affection continues in this most unhappy and unsuccessful condition, ought to lead us to the inference that there is some great principle relative to our mental constitution undiscovered, in which a remedy for these evils will be found. The fact that man is a rational creature—who must open up his own way to happiness by means of knowledge—ought to lead us, when misery is found to result from our conduct, to infer that we have been ignorant or reckless, and that we ought to seek new light, and take greater care in future.

Far from its being incredible, therefore, that a method has actually been provided by the Creator, whereby the mental qualities of human beings may be discovered, this supposition appears to be directly warranted by every fact which we perceive, and every result which we experience, connected with his government of the world. If God *has* placed within our reach the means of avoiding unhappy marriages, and if we neglect to avail ourselves of his gift, then are we ourselves to blame for the evils we endure. I cannot too frequently remind you that every fact, physical and

moral, with which we are acquainted, tends to show that man is comparatively a recent inhabitant of this globe ; that, as a race, he is yet in his infancy ; and that you ought no more to be astonished at new and valuable natural institutions, calculated to promote human enjoyment and virtue, evolving themselves from day to day to our understandings, than you are at the obviously increasing intelligence of an individual as he passes from childhood to youth, and from youth to manhood.

I am equally at a loss to discover any reason why it should be thought to be absurd, that the means of discriminating natural qualities should be presented to us through the medium of the brain. Dr. Thomas Brown has justly remarked, that "to those who have not sufficient elementary knowledge of science, to feel any interest in physical truths, as one connected system, and no habitual desire of exploring the various relations of new phenomena, many of the facts in nature, which have an appearance of incongruity as at first stated, do truly seem ludicrous."

It has been positively ascertained by measurement, that a head not more than thirteen inches in horizontal circumference is invariably attended by idiocy, unless the frontal region be disproportionably large. Dr. Voisin, of Paris, lately made observations on the idiots under his care at the Hospital of Incurables in that city, and found the proposition uniformly confirmed, and that, *cæteris paribus*, the larger the head was, the more distinctly were the mental powers displayed.

It is worthy of remark, that—almost as if to show an intention that we should be guided by observation of the size and configuration of the brain—the cerebral development is in man extensively indicated during life by the external aspect of the head ; while among the lower animals, on the contrary, this is much less decidedly the case. In the hog, elephant, and others, the form and magnitude of the brain are not at all discoverable from the living head. The brutes have no need of that knowledge of each other's dispositions which is required by man ; divine instincts lead them into the proper path ; and, as it is probable that a different arrangement has not been adopted in regard to man without an object and a reason, subsequent generations may contemplate it with different eyes from those with which it has been regarded in our day.

To illustrate the possibility of discriminating natural dispositions and talents by means of observations of the head, I may be permitted to allude to my experience of the fact, and to refer particularly to my recent visit to the jail at Newcastle. On the 28th of October, 1835, I visited that jail, along with Dr. George Fife (who is not a phrenologist) and nine other gentlemen. I examined the head of an individual criminal, and, before any account whatever was given, wrote down my own remarks. At the other side of the table, and at the same time, Dr. Fife wrote down an account of the character and conduct of the criminal, as disclosed by the judicial proceedings and the experience of the jailor. When both had finished, the writings were compared. It is sufficient to adduce three of the cases.

"The first was a young man about twenty years of age, P. S. After stating the organs which predominated and those which were deficient in his brain, I wrote as follows: 'My inference is, that this boy is not accused of violence; his dispositions are not ferocious, nor cruel, nor violent; he has a talent for deception, and a desire for property not regulated by justice. His desires may have appeared in swindling or theft. It is most probable that he has swindled; he has the combination which contributes to the talent of an actor.' The remarks which Dr. Fife wrote were the following: 'A confirmed thief: he has been twice convicted of theft. He has never shown brutality, but he has no sense of honesty. He has frequently attempted to impose on Dr. Fife; he has considerable intellectual talent; he has attended school, and is quick and apt; he has a talent for imitation.'

"The next criminal was also a young man, aged eighteen, T. S. I wrote: 'This boy is considerably different from the last. He is more violent in his dispositions; he has probably been committed for an assault connected with women. He has also large Secretiveness and Acquisitiveness, and may have stolen, although I think this less probable. He has fair intellectual talents, and is an improvable subject.' Dr. Fife wrote: 'Crime, rape. * * * No striking features in his general character; mild disposition; has never shown actual vice.'

"The third criminal examined was an old man of seventy-three, J. W. The remarks which I wrote were these: 'His moral dispositions generally are very defective; but

he has much caution. I cannot specify the precise crime of which he has been convicted. Great deficiency in the moral organs is the characteristic feature, which leaves the lower propensities to act without control.' Dr. Fife wrote: 'A thief; void of every principle of honesty; obstinate; insolent; ungrateful for any kindness. In short, one of the most depraved characters with which I have ever been acquainted.'"*

The two young men here described were rather well-looking and intelligent in their features, and if judged of simply by their appearance, would have been believed to be rather above than below the average youth of their own rank of life. Yet which of you will say, that if any relative of yours were to be addressed by men of the same dispositions, it would not be more advantageous to possess the means of discovering their real qualities, before marriage, and consequently to avoid them, than to find them out only by experience; in other words, after having become their victim?

I add another illustration. Upward of ten years ago, I met, for a short time, with an individual who was about to be married to a lady with whom I was acquainted. In writing this piece of news to a friend at a distance, I described the gentleman's development of brain, and dispositions; and expressed my regret that the lady had not made a more fortunate choice. My opinion was at variance with the estimate of the lover made by the lady's friends from their own knowledge of him. He was respectably connected, reputed rich, and regarded as altogether a desirable match. The marriage took place. Time wheeled on its ceaseless course; and at the end of about seven years, circumstances occurred of the most painful nature, which recalled my letter to the memory of the gentleman to whom it had been addressed. He had preserved it, and after comparing it with the subsequent occurrences, he told me that the description of the natural disposition coincided so perfectly with those which the events had developed, that it might have been supposed to have been written after they had happened.

I cannot here enter into the limitations and conditions under which phrenology should be used for this purpose; such discussions belong to the general subject of that science. My sole aim now is to announce the possibility

* Phrenological Journal.

of its being thus applied. If you will ask any lady who suffers under the daily calamity of a weak, ill-tempered, or incorrigibly rude and vulgar husband, and who, by studying phrenology, sees these imperfections written in large and legible characters in his brain, whether she considers that it would have been folly to have observed and given effect to these indications in avoiding marriage, her sinking and aching heart will answer, no! She will pity the flippancy that would despise any counsel of prudence or treat with inattention any means of avoiding so great a calamity, and declare that, had she known the real character indicated by the head, she could not have consented to become the companion of such a man for life. In fact, we find that sensible men and women in general do direct themselves in their matrimonial choice by the best knowledge which they possess; they avoid glaring bodily defects and openly bad characters; and what is this but a complete recognition of the principle for which I am contending? My whole extravagance (if any of you consider me guilty of such) consists in proposing to put you in possession of the means of obtaining more minute, accurate, and applicable knowledge, than is at present generally attained, in the belief that you will be disposed to act on that knowledge, as you show that you are anxious to do on that which has fallen already in your way. I am willing, therefore, to encounter all the ridicule which may be excited by these views, convinced that those laugh best who win, and that observance of them will render all winners, if they be founded, as I believe them to be, in the institutions of creation.

I stand before you in a singular predicament. Lecturers on recognised science are hailed with rapturous encouragement, when they bring forward new truths; and in proportion as these are practical and important, the higher is their reward. I appear, however, as the humble advocate of a science which is still so far from being universally admitted to be true, that the very idea of applying it practically in a department of human life, in which, hitherto, there has been no guide, appears to many to be ludicrous. It would be far more agreeable to me to devote my efforts to teaching you doctrines which you should *all* applaud, and which should carry home to your minds a feeling of respect for the judgment of your instructer. But one obstacle prevents me from enjoying this advantage. I have been permitted to

become acquainted with a great and, until lately, an unknown region of truth, which appears to my own mind to bear the strongest impress of a divine origin, and to be fraught with the greatest advantages to mankind; and, as formerly stated, I feel it to be a positive moral duty to submit it to your consideration. All I ask is, that you will meet the communication with the spirit and independence of free-minded men. Open your eyes that you may see, your ears that you may hear, and your understandings that you may comprehend; and fear nothing.

LECTURE VI.

ON POLYGAMY: FIDELITY TO THE MARRIAGE VOW: DIVORCE DUTIES OF PARENTS TO THEIR CHILDREN.

Polygamy not founded in Nature—Fidelity to the marriage vow a natural institution—Divorce—Objections to the law of England on this subject—Circumstances in which divorce should be allowed--Duties of parents--Mr. Malthus's law of population, and Mr. Sadler's objections to it, considered --Parents bound to provide for their children, and to preserve their health--Consequences of neglecting the laws of health.

The remarks in my last lecture bore reference to the constitution of marriage. Moralists generally discuss also the questions of polygamy, fidelity to the marriage vow, and divorce.

On the subject of polygamy I may remark, that it is generally admitted by statistical authorities that the proportions of the sexes born are, thirteen males to twelve females. From the greater hazards to which the male sex is exposed, this disparity is, in adult life, reduced to equality; indeed, with our present manners, habits, and pursuits, the balance among adults, in almost all Europe, is turned the other way, the females of any given age above puberty preponderating over the males. In some eastern countries more females than males are born; and it is said that this indicates a design in nature, that *there* each male should have several wives. But there is reason to believe that the variation from the proportion of thirteen to twelve is the consequence of departures from the natural laws. In the appendix to the "Constitution of Man" I have quoted some curious observations in regard to the determination of the sexes, in

the lower animals; from which it appears that inequality is the result of unequal strength and age in the parents. In our own country and race, it is observed, that when old men marry young females, the progeny are generally daughters; and I infer that in the eastern countries alluded to, in which an excess of females exists, the cause may be found in the superior vigour and youth of the females; the practice of polygamy being confined to rich men, who enervate themselves by every form of disobedience to the natural laws, and thereby become physically inferior to the females.

The natural equality of the sexes, therefore, when the organic laws are duly observed, affords one strong indication, that the Creator has not intended to institute polygamy; and the same conclusion is strengthened by considering the nature of the domestic affections. Harmonious gratification of the three faculties constituting the domestic group, in accordance with the moral sentiments and intellect, is necessarily attended with the greatest pleasure and the most advantageous results; but this can be accomplished only by the union of one male with one female. If the male have several wives, there is an excess of gratification provided for the cerebellum, and a diminution of gratification to Adhesiveness and Philoprogenitiveness; for his attachment, diffused among a multitude of objects, can never glow with the intensity, nor act with the softness and purity, which inspire it when directed to one wife and her offspring. The females also, in a state of polygamy, must be deprived of gratification to their Self-Esteem and Adhesiveness, for none of them can claim an undivided love. There is injustice to the females, therefore, in the practice; and no institution that is unjust can proceed from the Creator. Farther, when we consider that in married life the pleasures derived from the domestic affections are unspeakably enhanced by the habitual play of the moral feelings and that polygamy is fatal to the close sympathy, confidence respect, and reciprocal devotion, which are the attendants of active moral sentiments—we shall be fully convinced that the Creator has not intended that men should unite themselves to a plurality of wives.

In regard to fidelity to the marriage vow, every argument tending to show that polygamy is forbidden by the natural law, goes to support the obligation of fidelity. As this point is one on which, fortunately, no difficulty or difference of

opinion, among rational persons, exists, I shall not dwell on it, but proceed to the subject of divorce.

The law of England does not permit divorce in any circumstances, or for any causes. A special act of the legislature must be obtained in that country to annul a marriage, which rule of course limits the privilege to the rich; and we may, therefore, fairly say that the law denies divorce to the great majority of the people. The law of Scotland permits divorce on account of infidelity to the marriage vow, and also on account of non-adherence, as it is called, or wilful desertion, by the husband, of his wife's society for a period of four successive years. The law of Moses permitted the Jewish husband to put away his wife; and, under Napoleon, the French law permitted married persons to dissolve their marriage by consent, after giving one year's judicial notice of their intention, and making suitable provisions for their children. The New Testament confines divorce to the single case of infidelity in the wife.

The question now occurs—What does the law of nature, written on our constitutions, enact?

The first fact that presents itself to our consideration is, that, in persons of well-constituted minds, nature not only institutes marriage, but makes it indissoluble except by death: even those lower animals which live in pairs exemplify permanent connexion. In regard to man, I remark, that where the three organs of the domestic affections bear a just proportion to each other, and where the moral and intellectual organs are favourably developed and cultivated, there is not only no desire on either side to bring the marriage tie to an end, but the utmost repugnance to do so. The deep despondency which changes into one unbroken expression of grief and desolation, the whole aspect even of the most determined and energetic men, when they lose by death the cherished partners of their lives; and that breaking down of the spirit, profoundly felt, although meekly and resignedly borne, which the widow indicates when her stay and delight is removed from her for ever; proclaim, in language too touching and forcible to be misunderstood, that, where the marriage union is formed according to nature's laws, no civil enactments are needed to render it indissoluble during life. It is clear that life-endurance is stamped upon it by the Creator, when he renders its continuance so sweet, and its bursting asunder so indescribably

painful. It is only where the minds of both or one of the parties are ill constituted, or where the union is otherwise unfortunate, that any desire for separation exists. The causes which may lead married individuals to desire to terminate their union may be briefly considered.

1. If, in either of them, the cerebellum predominates greatly in size over Adhesiveness, Philoprogenitiveness, and the organs of the moral sentiments, there is a feeling of restraint in the marriage state, which is painful.

To compel a virtuous and amiable partner to live in inseparable society with a person thus constituted, and to be the unwilling medium of transmitting immoral dispositions to children, appears directly contrary to the dictates of both benevolence and justice. Paley's argument against permitting dissolution of the marriage tie at the will of the husband is, that "new objects of desire would be continually sought after, if men could, at will, be released from their subsisting engagements. Supposing the husband to have once preferred his wife to all other women, the duration of this preference cannot be trusted to. Possession makes a great difference; and there is *no other* security against the invitations of novelty, than the known impossibility of obtaining the object." This argument is good, when applied to men with unfavourably balanced brains, viz., to those in whom the cerebellum predominates over the organs of Adhesiveness and the moral sentiments; but it is unfounded as a general rule; and the question is, whether it be desirable to deny absolutely, to the great body of the people, as the law of England does, all available means of dissolving the connexion with such beings. It appears not to be so. The husband certainly ought not to have the power to dissolve the marriage tie at his pleasure; but the French law seems more reasonable which permitted the parties to dissolve the marriage when both of them, after twelve months' deliberation, and after suitably providing for their children, desired to bring it to a close.

The same argument applies to voluntary dissolution of marriage in cases of irreconcilable differences in temper and dispositions. "The law of nature," says Paley, "admits of divorce in favour of the injured party, in cases of adultery, of obstinate desertion, of attempts upon life, of outrageous cruelty, of incurable madness, and, perhaps, of personal imbecility; but by no means indulges the same

privileges to mere dislike, to opposition of numours, and inclination, to contrariety of taste and temper, to complaints of coldness, neglect, severity, peevishness, jealousy: not that these reasons are trivial, but because such objections may always be alleged, and are impossible by testimony to be ascertained; so that to allow implicit credit to them, and to dissolve marriages whenever either party thought fit to pretend them, would lead in its effects to all the licentiousness of arbitrary divorces." "If a married pair, in actual and irreconcilable discord, complain that their happiness would be better consulted, by permitting them to determine a connexion which is become odious to both, it may be told them, that the same permission, as a general rule, would produce libertinism, dissension, and misery among thousands, who are now virtuous, and quiet, and happy, in their condition; and it ought to satisfy them to reflect, that when their happiness is sacrificed to the operation of an unrelenting rule, it is sacrificed to the happiness of the community."

If there be any truth in phrenology, this argument is a grand fallacy. Actual and irreconcilable discord arises only from want of harmony in the natural dispositions of the parties, connected with differences in their cerebral organizations; and agreement arises solely from the existence of such harmony. The natures of the parties in the one case differ irreconcilably; but to maintain that if two persons of such discordant minds were permitted to separate, thousands of accordant minds would instantly fly off from each other in a like state of discord, is equally illogical as it would be to assert, that if the humane spectators of a street fight were to separate the combatants, they would forthwith be seized with the mania of fighting among themselves.

In point of fact, the common arguments on this subject have been written in ignorance of the real elements of human nature, and are applicable only to particularly constituted individuals. Married persons may be divided into three classes: First, those whose dispositions naturally accord, and who, in consequence, are happy. Secondly, those in whom there are some feelings in harmony, but many in discord, and who are in the middle state between happiness and misery; and thirdly, those between whose dispositions there is irreconcilable difference, and who are therefore altogether unhappy in each other's society.

Paley's views, if applied to persons who are bordering on the middle line of liking and dislike toward each other, would be sound. To hold up to such persons extreme difficulty or impossibility of obtaining a dissolution of the marriage tie, will present them with motives to cultivate those feelings in which they agree; while to present them with easy means of terminating it, will lead to reckless aggravation of their quarrels. But this is only one class, and their case does not exhaust the question. Where the union is really accordant in nature, the facility of undoing it will not alter its character, nor produce the desire to destroy the happiness which it engenders. Where it is irremediably unsuitable and unhappy, the sacrifice of the parties will not mend their own condition; and as the happy are safe in the attractions of a reciprocal affection, the only persons who can be said to be benefited by the example of the inseparability of the wretched, are the class of waverers to whom I have alluded. I humbly think that Nature has attached not a few penalties to the dissolution of the marriage tie, which may have some effect on this class; and that these, aided by proper legal impediments to the fulfilment of their caprices, might render the restraints on them sufficient, without calling for the absolute sacrifice of their completely unhappy brethren for the supposed public good.

Such a conclusion is greatly strengthened by the consideration that the dispositions of children are determined, in an important degree, by the predominant dispositions of the parents; and that to prevent the separation of wretched couples, is to entail misery on the offspring, not only by the influence of example, but by the transmission to them of ill-constituted brains—the natural result of the organs of the lower feelings being maintained in a state of constant activity in their parents by dissension.

The argument that an indissoluble marriage tie presents motives to the exercise of grave reflection before forming it, would be worthy of some consideration, if persons contemplating marriage possessed *adequate* means of rendering reflections successful; but while the law permits marriage at ages when the parties are destitute of foresight, (in Scotland at fourteen in males, and at twelve in females,) and while the system of moral and intellectual education pursued in this country furnishes scarcely one sound element of information by which to guide the judgment in its choice,

the argument is a mockery at once of reason and of human suffering. It appears to me that until mankind shall be instructed in the views which I am now advocating, in so far as experience shall prove them to be sound, and shall be trained to venerate them as institutions of the divine will, and to practise them in their conduct, they will not possess adequate means of acting rationally and successfully in forming marriages. While so many sources of error encompass them as at the present, they ought not to be deprived of the possibility of escaping from the pit into which they may have inadvertently fallen; and not only divorce for infidelity to the marriage vow, but dissolution of marriage by voluntary consent, under proper restrictions, and after due deliberation, ought to be permitted.*

Having now considered the general subject of marriage, I proceed to make some remarks on the duties of parents to their children.

Their first duty is to transmit sound constitutions, bodily and mental, to their offspring; and this can be done only by their possessing sound constitutions themselves, and living in habitual observance of the natural laws. Having already treated of this duty in discussing the constitution of marriage, I need not here revert to it. It is of high importance; because if great defects be inherent in children at birth, a life of suffering is entailed on them: The iniquities of the fathers are truly visited on the children, to the third and fourth generation, of those who hate God by disobeying his commandments written in their frames. It is sufficient here to condemn severely the selfishness of

* The revised statutes of Massachusetts (chap. 76, sect. 5) permit divorce "for adultery," or defect "in either party, or when either of them is sentenced to confinement to hard labour in the state-prison, or in any jail or house of correction, for the term of life, or for seven years or more; and no pardon granted to the party so sentenced, after a divorce for that cause, shall restore the party to his or her conjugal rights." This last is a just and humane provision; for it is calculated for the relief of the innocent partner of a confirmed criminal When will the law of England contain a similar enactment! The class which makes the laws in Britain is not that which supplies criminals to jails or penal colonies, and it is often long before the mere dictates of humanity and justice prompt them to relieve an inferior order from an evil the pressure of which is not experienced by themselves.

those who, for their own gratification, knowingly bring into the world beings by whom life cannot fail to be regarded as a burden.

In the next place, parents are bound by the laws of nature to support, educate, and provide for the welfare and happiness of their children. The foundation of this duty is laid in the constitution of the mind. Philoprogenitiveness, acting along with Benevolence, gives the impulse to its performance, and Veneration and Conscientiousness invest it with all the sanctions of moral and religious obligation. When these faculties are adequately possessed, there is in parents a strong and never-slumbering desire to promote the real advantage of their offspring; and in such cases only intellectual enlightenment and pecuniary resources are wanting to ensure its complete fulfilment. Neglect of, or indifference to, this duty is the consequence of deficiency either in Philoprogenitiveness, in the moral organs, or in both; and the conduct of individuals thus unfavourably constituted should not be charged against human nature in general.

The views of Mr. Malthus on population may be adverted to in connexion with the duty of parents to support their family. Stated simply, they are these:—The productive powers of healthy, well-fed, well-lodged, and well-clothed human beings, are naturally so great, that fully two children will be born for every person who will die within a given time; and as a generation lasts about thirty years, at the end of that period the population will of course be doubled; in point of fact, in the circumstances here enumerated, population is observed actually to double itself in twenty-five years. This rate of increase takes place in the newly-settled and healthy states of North America, independently of immigration. To become aware of the effects which this power of increase would produce in a country of circumscribed territory, like Britain, we need resort only to a very simple calculation. If, for example, Britain in 1800 had contained twelve millions of inhabitants, and this rate of increase had taken place, the population in 1825 would have amounted to twenty-four millions; in 1850 it would amount to forty-eight millions; in 1875 to ninety-six millions; in 1900 to one hundred ninety-two millions; and in 1925 to three hundred eighty-four millions; and so on, always doubling every twenty-five years. Now Malthus

maintained that food cannot be made to increase in the same proportion; we cannot *extend the surface* of Britain, for nature has fixed its limits; and no skill nor labour will suffice to augment the productive powers of the soil in a ratio doubling every twenty-five years. He, therefore, drew the conclusion that the Creator intended that human beings (in the absence of adequate means of emigration, and of procuring food from foreign countries) should restrain their productive powers, by the exercise of their moral and intellectual faculties; in other words, should not marry until they are in possession of sufficient means to maintain and educate a family; and he added, that if this rule were generally infringed, and the practice of marrying early and exerting the powers of reproduction to their full extent became common, in a densely-peopled country, Providence would check the increase by premature deaths, resulting from misery and starvation.

This doctrine has been loudly declaimed against; but the question appears very simple. The domestic affections are powerful, and come early into play, apparently to afford a complete guaranty against extinction of the race; but along with them we have received moral sentiments and intellect, bestowed for the evident purpose of guiding and restraining them, so as to lead them to their best and most permanent enjoyments. Now, what authority is there from nature for maintaining that these affections alone are entitled to emancipation from moral restraint and intellectual guidance; and that they have a right to pursue their own gratification from the first moment of their energetic existence to the last, if only the marriage vow have been undertaken and be observed? I can see no foundation in reason for this view. From the imperfections of our moral education, we have been led to believe, that if the priest only solemnize a marriage, and the vow of fidelity be observed, there is no sin, although there may be imprudence or misfortune, in rearing a family for whom we are unable to provide. But if we believe in the natural laws, as institutions of the Creator, we shall be satisfied that there is great sin in such conduct. We know that nature has given us strong desires for property, and has fired us with ambition, and with the love of splendour and of many other objects; yet no rational person argues that these desires may, with propriety, be gratified whether we have the means of legitimately doing so or

not. Why, then, should the domestic affections form an exception to the universal rule of moral guidance and restraint?

Mr. Sadler, a writer on this subject, argues, that marriages naturally become less prolific according as the population becomes more dense, and that in this way the consequences predicted by Malthus are prevented. But this is trifling with the question; for the very misery of which Malthus speaks, is the cause of the diminution in the rate of increase. This diminution may be owing either to few children being born, or to many dying early. Now, the causes why few children are born in densely peopled countries are easily traced; some parents, finding subsistence difficult of attainment, practise moral restraint and marry late; others are infirm in health, or oppressed with cares and troubles, whereby the fruitfulness of marriages is diminished—but these are instances of misery attending on a dense state of population. Again, it is certain that the mortality of children is in such circumstances unusually great, but the causes of this mortality also are closely connected with density of population. If the opponents of Malthus could show that there is a law of nature by which the productiveness of marriages is diminished in proportion to the density of the population, *without an increase of misery*, they would completely refute his doctrine. This, however, they cannot do. A healthy couple, who marry at a proper age, and live in comfort and plenty, are able to rear as numerous and vigorous a family in the county of Edinburgh, which is densely peopled, as in the thinly inhabited county of Ross. Mr. Malthus, therefore, does well in bringing the domestic affections, equally with our other faculties, under the control of the moral and intellectual powers.

A reflected light of the intentions of nature in regard to man, may frequently be obtained by observing the lower animals. Almost all the lower creatures have received powers of increasing their numbers far beyond the voids made by death in the form of natural decay. If we consider the enormous numbers of sheep, cattle, fowls, hares, and other creatures, in the prime of life, that are annually slaughtered for human sustenance, and recollect that the stock of those existing is never diminished, we shall perceive that, if every one of these animals which is produced were allowed to live, in a very few years a general desolation, through scarcity of food, would overtake them all. It

is intended that these creatures should be put to death and used as food. Now man, in so far as he is an organized being, closely resembles these creatures, and in the instincts in question he is constituted exactly as they are. But he has obtained the gift of reason, and instead of being intended to be thinned by the knife and violence, like *the animals*, he is invited to increase his means of subsistence by his skill and industry, and to restrain his domestic affections by his higher powers whenever he reaches the limits of his food. As the mental organs may be enlarged or diminished in the course of generations by habitual exercise or restraint, it is probable that, in a densely peopled and highly cultivated nation, the organs of the domestic affections may diminish in size and activity, and that a less painful effort may then suffice to restrain them than is at present necessary, when the world is obviously young, and capable of containing vastly more inhabitants than yet possess it.

The next duty of parents is, to preserve the life and health of their children after birth, and to place them in circumstances calculated to develope favourably their physical and mental powers. It is inconceivable to what extent human ignorance and wickedness cause this duty to be neglected. "A hundred years ago," says Dr. A. Combe, "when the pauper infants of London were received and brought up in the workhouses, amid impure air, crowding, and want of proper food, not above one in twenty-four lived to be a year old; so that out of 2800 annually received into them, 2690 died. But when the conditions of health came to be a little better understood, and an act of parliament was obtained obliging the parish officers to send the infants to nurse in the country, this frightful mortality was reduced to 450, instead of 2600!" In 1781, when the Dublin lying-in hospital was imperfectly ventilated, "every sixth child died within nine days after birth, of convulsive disease; and after means of thorough ventilation had been adopted, the mortality of infants, within the same time, in five succeeding years, was reduced to nearly one in twenty." Even under private and maternal care the mortality of infants is extraordinary. "It appears, from the London bills of mortality, that between a fourth and a fifth of all the infants baptized die within the first two years of their existence. This extraordinary result is not a part of the Creator's designs; it does not occur in the case of the

lower animals, and must therefore have causes capable of removal."* It is the punishment of gross ignorance and neglect of the organic laws. Before birth, the infant lives in a temperature of ninety-eight, being that of the mother: at birth it is suddenly ushered into the atmosphere of a cold climate; and among the poorer classes through want, and among the richer through ignorance or inattention, it is often left very inadequately protected against the effects of this sudden change. In the earlier stages of infancy, improper food, deficient ventilation, deficient cleanliness, and want of general attention, consign many to the grave; while in childhood and youth, great mischief to health and life are often occasioned by infringement of the organic laws. In a family which I knew in youth, two sons, of apparently promising constitutions, fell victims to consumption; and both had slept during the years of youth in a very small bed-closet, with a window consisting of a single pane of glass, which was so near to the bed that it could never be opened with safety to their lungs during night. Breathing the atmosphere of so small an apartment for seven or eight hours in succession, directly tended to bring down the vigour of their respiatory organs, and to injure the tone of the whole system. The effect of this practice was to prepare the lungs to yield to the first unfavourable influence to which they might be exposed; and accordingly, when such occurred, both fell victims to pulmonary disease. Similar cases are very abundant; and the ignorance which is the root of the evil is the more fatal, because the erroneous practices which undermine the constitution operate slowly and insidiously, and even after the results are seen, their causes are neither known nor suspected. For many years a lady known to me was troubled with frequent and severe headaches, which she was unable to get rid of; but having been instructed in the functions of the lungs, the constitution of the atmosphere, and the bad effects of improper food and a sedentary life, she removed from the very confined bed-room which she had occupied for many years, to one that was large and airy, and began to take regular exercise in the open air, and to practise discrimination with respect to her food; and since that time, nearly ten years ago, her general health has been vastly improved, and headaches very seldom occur.

* Physiology applied to Health and Education.

When you study this subject with a view to practice, you will find that the principles which I laid down in the fourth lecture, are of great importance as guides—namely, that each organ of the body has received a definite constitution, and that health is the result of the harmonious and favourable action of them all. Hence, it is not sufficient to provide merely airy bed-rooms for children, if at the same time the means of cleanliness be neglected, or their brains be over-exerted in attending too many classes and learning too many tasks; the delicate brain of youth demands frequent repose. In short, a real practical knowledge of the laws of the human constitution is highly conducive to the successful rearing of children; and the heart-rending desolation of parents, when they see the dearest objects of their love successively torn from them by death, ought to be viewed as the chastisement of ignorance or negligence alone, and not as proofs of the world being constituted unfavourably for the production of human enjoyment. Parents, however, ought not, in this matter, to look to *their own* happiness merely; they are under solemn obligations to the children whom they have chosen to bring into the world. Improper treatment in infancy and childhood, at which period the body grows rapidly, is productive of effects far more prejudicial and permanent than at any subsequent age;* and assuredly those parents are not guiltless who wilfully keep themselves in ignorance of the organic laws, or, knowing these, refrain from acting in accordance with them in the rearing of their children. The latter have a positive claim (which no parent of right feeling will disregard or deny) on those who have forced existence upon them, that they shall do all in their power to render it comfortable.

Perhaps some may think that the importance of obedience to the organic laws has been insisted on more than the subject required. Such an idea is natural enough, considering that an exposition of these laws forms no part of ordinary education, and that obedience to them is enjoined by no human authority. There is no trace of them in the statute-book, none in the catechisms issued by authority of the church; and you rarely, if ever, hear them mentioned

* The principles which should guide parents in the treatment of children are stated and enforced in Dr. A. Combe's work on the the Physiological and Moral Treatment of Infancy.

as laws of God, by his servants who teach his will from the pulpit. Nay, even the general tongue of society, which allows few subjects to escape remark, is silent with regard to them. Hence, it is probable that the importance of obeying the organic laws may to some appear to be over-estimated in these lectures. But the universal silence which prevails in society has its source in ignorance. Physiology is still unknown to nineteen-twentieths even of educated persons, and to the mass it is a complete *terra incognita.* Even by medical men it is little studied as a practical science, and the idea of its beneficial application as a guide to human conduct in general is only now beginning to engage their attention. If to all this we add, that, until phrenology was discovered, the dependence of mental talents and dispositions on cerebral developement was scarcely even suspected —and that belief in this truth is still far from being universal—the silence which prevails with respect to the organic laws, and neglect of them in practice, will not seem unaccountable.

On this subject I would observe, that there is a vast difference between the uncertain and the unascertained. It is now universally admitted, that all the movements of matter are regulated by laws; and that they are never uncertain, although the laws which they observe may, in some instances, be unascertained. The revolutions of the planets can be predicted, while those of some of the comets are as yet unknown; but no philosopher imagines that the latter are uncertain. The minutest drop of water that descends the mighty fall of Niagara is regulated in all its movements by definite laws, whether it rise in mist and float in the atmosphere to distant regions, there to descend as rain; or be absorbed by a neighbouring shrub, and reappear as an atom in a blossom adorning the Canadian shore; or be drunk up by a living creature, and sent into the wonderful circuit of its blood; or become a portion of an oak, which at a future time shall career on the ocean. Nothing can be less ascertained, or probably less ascertainable by mortal study, than the motions of such an atom; but every philosopher will, without one moment's hesitation, concede that not one of them is uncertain.* The first element of a philosophic understanding, is the capacity of extending the same

* I owe this forcible illustration to Dr. Chalmers, having first heard it in one of his lectures.

conviction to the events evolved in every department of nature. A man who sees disease occurring in youth or middle age, and whose mind is not capable of perceiving that it is the result of imperfect or excessive action in some vital organ, and that imperfect or excessive action is just another name for deviation from the proper healthy state of that organ, is not capable of reasoning. It may be true that, in many instances, our knowledge is so imperfect, that we are incapable of discovering the chain of connexion between the disease and its organic cause; but he is no philosopher who doubts the *reality* of the connexion.

One reason of the obscurity that prevails on this subject in the mind of persons not medically educated, is ignorance of the structure and functions of the body; and another is, that diseases appear under two very distinct forms—structural and functional; only the former of which is understood by common observers to constitute a proper malady. If an arrow be shot into the eye there is derangement of the structure, and the most determined opponent of the natural laws will at once admit the connexion between the blindness which ensues, and the lesion of the organ. But if a watchmaker or an optical instrument maker, by long-continued and excessive exertion of the eye, have become blind, the disease is called functional; the function, from being over-stimulated, is impaired, but frequently no alteration of structure can be perceived. No philosophic physiologist, however, doubts that there *is*, in the structure, a change corresponding to the functional derangement, although human observation cannot detect it. He never says that it is nonsense to assert that the patient has become blind in consequence of infringement of the organic laws. It is one of these laws that the function of the eye shall be exercised moderately, and it is a breach of that law to strain it to excess.

The same principle applies to a great number of diseases occurring under the organic laws. Imperfections in the tone, structure, or proportion of certain organs, may exist at birth, so hidden by their situation, or so slight, as not to be readily perceptible, but not on that account the less real and important; or deviations may be made gradually and imperceptibly from the proper and healthy exercise of the functions; and from one or other cause, disease may invade the constitution. Religious persons term disease

occurring in this occult manner a dispensation of God's providence; the careless name it an unaccountable event; but the physician invariably views it as the result of imperfect or excessive action of some organ or another, and he never doubts that it has been caused by deviations from the laws which the Creator has prescribed for the regulation of the animal economy. The objection that the doctrine of the organic laws which I have been inculcating is unsound, because diseases come and go, without uneducated persons being able to trace their causes, has not a shadow of philosophy to support it. I may err in my exposition of these laws, but I hope I do not err in stating that neither disease nor death, in early or middle life, can take place under the ordinary administrations of Providence, except when these laws have been infringed.

My reason for insisting so largely on this subject, is a profound conviction of the importance of the organic laws. They are fundamental to happiness; that is, the consequences of errors in regard to them cannot be compensated for, or removed by, any other means than obedience. I daily see melancholy results of inattention to their dictates. When you observe the husband, in youth or middle age, removed by death from the partner of his love and the other dear objects of his affections; or when you see the mother at a similar age torn from her infant children, her heart bleeding at the thought of leaving them in the hand of the stranger while they most need her maternal care; the cause of the calamity is either that the dying parent inherited a defective constitution in consequence of disobedience by his ancestors to the organic laws, or that he himself has infringed them grievously. If, therefore, we desire to diminish this class of calamities, we must study and obey the organic laws. As these laws operate independently of all others, we may manifest the piety of angels, and yet suffer if we neglect them. I repeat, then, that if there be any remedy on earth for this class of evils, it is obedience to the laws of our constitution, and this alone.

Again, if we see the lovely infant snatched from the mother's bosom by the hand of death, while it caused every affection of her mind to thrill with joy, and fed her hopes with the fondest and brightest visions of its future talent, virtue, and success—let us trace the cause, and we shall find that the organic laws have been infringed. If you see

an aged man walking with heavy steps, and deeply dejected mein, the nearest follower after a bier adorned with white— it is a father carrying to the grave his first-born son, the hope and stay of his life, torn from him in the full bloom of manhood, when already he had eased the hoary head of half its load of care. The cause of this scene also is infringement of the organic laws.

Or open the door of some family parlour, where we expect to meet with peace and joy, blessing and endearment, as the natural accompaniments of domestic life, and see discord, passion, disappointment, and every feeling that imbitters existence, depicted on the countenances of the inmates. The cause is still infringement of the organic laws. Two persons have married whose brains differ so widely that there is not only no natural sympathy between them, but absolute contradiction in their dispositions. This discord might have been read in their brains before they were united for life.

Look on another scene. You may observe several persons of each sex, in middle life, gravely sitting in anxious deliberation. They are the respectable members of a numerous family, holding consultation on the measures to be adopted in consequence of one of their number having become insane, or having given himself up irreclaimably to drunkenness, or to some worse species of immorality. Their feelings are deeply wounded, their understandings are perplexed, and they know not what to do. The cause is still the same: the unfortunate object of their solicitude has inherited an ill-constituted brain; it has yielded to some exciting cause, and he has lost his reason; or he has given way to a headlong appetite for intoxicating liquors, in consequence of one or other of his parents having laboured under a similiar influence at the commencement of his existence; and it has now become an actual disease. The organic laws have been infringed; and this scene also is a form in which the Creator indicates to his creatures that his laws have been trangressed. If you make a catalogue of human miseries, and inquire how many of them spring directly or indirectly from infringement of the organic laws, you will be astonished at its extent.

If, then, these laws be fundamental—if the consequences of disobeying them be so formidable, and if escape be so impossible, you will forgive the anxiety with which I have

endeavoured to expound them. I might draw pictures the converse of all that I have here represented, and show you health, long life, happiness, and prosperity, as the rewards of obeying these and the other natural laws, and I should still be justified by philosophy; but the principle, if admitted, will carry home these counter results to your own understandings. I may farther remark, that all philosophy and theology which have been propounded by men ignorant of these laws, may be expected to be imperfect, and that therefore we arrogate no undue superiority in refusing to yield the convictions of our own judgments to the dictates of their intellects, (however admirable in native vigour,) when they had no sound data on which to proceed. The events of human life, viewed through the medium of their principles, and of the philosophy which I am now expounding, must appear in very different lights. In their eyes many events appear inscrutable, which to us are clear. According to our view, an allwise and beneficent Creator has bestowed on us, the highest of his terrestrial creatures, the gift of reason, and has arranged the whole world as a theatre for its exercise. He has placed before us examples without number of his power, wisdom, and goodness, and left us to apply our faculties to study them and to act in harmony with them, and then to live and be happy, or to neglect them and to suffer. Each of you will approve of that system which appears to be founded in truth and to tend most to the glory of God. I ask no man to yield his conscience and his understanding to my opinions; but only solicit liberty to announce what to myself appears to be true, that it may be received or rejected, according to its merits.

In concluding, it is proper to add one observation. Mankind have lived so long without becoming acquainted with the organic laws, and have, in consequence, so extensively transgressed them, that there are few individuals in civilized society who do not bear in their persons, to a greater or less extent, imperfections derived from this source. It is impossible, therefore, even for the most anxious disciples of the new doctrine, all at once to yield perfect obedience to these laws. If none were to marry in whose family stock, and in whose individual persons, any traces of serious departures from the organic laws were to be found, the civilized world would become a desert. The return to obedience must be gradual, and the accomplishment of it the

result of time After these laws are unfolded to a man's discernment, he is not guiltless if he completely disregard them, and commit flagrant violations of their dictates. We are all bound, if we believe them to be instituted by God, to obey them as far as is in our power; but we cannot command all external circumstances. We are bound to do the best we can; and this, although not all that could be desired, is often much; nor shall we ever miss an adequate reward, even for our imperfect obedience.

It is deeply mysterious that man should have been so created, as to err for thousands of years through ignorance of his own constitution and the laws under which he suffers or enjoys; but it is equally mysterious that the globe itself underwent the successive revolutions revealed by geology, destroying myriads of living creatures, and extinguishing whole races of beings before man appeared! It is equally mysterious, also, why the earth presents such striking inequalities of soil and climate—in some regions so beautiful, so delightful, so prolific; in others so dreary, steril, and depressing! It is equally mysterious that man has been created a mortal creature, living, even at the best, but for a season on earth, and then yielding his place to a successor, whose tenure will be as brief as his own. These are mysteries which reason cannot penetrate, and for which fancy cannot account; but they all relate, not to our conduct here, but to the will of God our maker in the creation of the universe. Although we cannot unravel the counsels of the Omnipotent, this is no reason why we should not study and obey his laws. What he has presented to us in creation, we are bound to accept with gratitude at his hand as a gift; but in using it, we are called on to exercise our reason, the noblest of his boons; and we may rest assured, that no impenetrable darkness will hang over the path of our duty, when we shall have fairly opened our eyes and our understandings to the study of his works. There is no difficulty in believing that man, having received reason, was intended to use it—that, by neglecting to do so, he has suffered—and that, when he shall duly employ it, his miseries will diminish; and this is all that I am now teaching. It is inexplicable why we should not earlier have gone into the road that leads to happiness; but let us not hesitate to enter it now, if we see it fairly opened before us.

LECTURE VII.

It is the duty of parents to educate their children—To be able to discharge this duty, parents themselves must be educated—Deficiency of education in Scotland—Means of supplying the deficiency—It is a duty to provide for children—Best provision for children consists in a sound constitution, good moral and intellectual training, and instruction in useful knowledge—What distribution of the parent's fortune should be made?—*Rights* of parents and duties of children—Obedience to parents—Parents bound to render themselves worthy of respect—Some children born with defective moral and intellectual organs—How they should be treated.

Next to the duty of providing for the physical health and enjoyment of their children, parents are bound to train and educate them properly, so as to fit them for the discharge of the duties of life. The grounds of this obligation are obvious. The human body and mind may be viewed as a large assemblage of organs and faculties, possessing native energy and extensive spheres of action, each capable of being used or abused, according as it is directed. The extent of range of these powers is a prime element in the dignity of man, yet it is this which renders education so important. As parents are the authors and guardians of the beings thus endowed, it is clearly their duty to train the faculties of those beings, and to direct them to their proper objects. "To send an uneducated child into the world," says Paley, "is little better than to turn out a mad dog, or a wild beast, into the streets."

To direct education properly, it is necessary to know the physical and mental constitution of the being to be educated, and also the world in which he is to be an actor. Generally speaking, the former knowledge is not possessed, and the latter object is very little regarded by parents in the education of their children. How many parents are able to call up to their own minds any satisfactory view of the mental faculties, with their objects and spheres of activity, which they aim at training in their children? How many add to this knowledge an acquaintance with the physical constitution of the human being, and of the kind of treatment which is best calculated to develope favourably its energies and capabilities? Nay, who can point out even a body of professional teachers who are thus highly accomplished? I fear none of us can do so

I do not blame either parents or teachers for the present imperfect state of their knowledge; because they were not themselves taught; indeed, the information here described did not exist a few years ago, and it exists but very imperfectly still. Ignorance, therefore, is our misfortune, rather than our fault; and my sole object in adverting to its magnitude is to present us all with motives to remove it. While it continues so profound and extensive as it has hitherto in general been, sound and salutary education can no more be accomplished, than you can cause light to shine forth out of darkness. Scotland has long boasted of her superior education; but her eyes are now opening to the groundlessness of this idea. In May, 1835, Dr. Welsh told the nation, in the General Assembly, that Protestant Germany, and even some parts of Catholic Germany, are in that respect far before us. The public mind is becoming so much alive to our deficiencies, that better prospects open up for the future. The details of education cannot here be entered into; but it may be remarked, that phrenology points out the necessity of training the propensities and sentiments, as well as cultivating and instructing the understandings of children. For accomplishing these ends, infant schools on Mr. Wilderspin's plan are admirably adapted.

The objects of education are—to strengthen each faculty that is too weak, to restrain those which are too vigorous, to store the intellect with moral, religious, scientific, and general knowledge, and to direct all to their proper objects. In cultivating the intellect, we should bear in view that external nature is as directly adapted to our different intellectual powers as light to the eye, and that the whole economy of our constitution is arranged on the principle that we shall study the qualities and relations of external objects, apply them to our use, and also adapt our conduct to their operation. The three great means of education are, domestic training, public schools, and literature or books. The first will be improved by instructing parents, and the second by the diffusion of knowledge among the people at large; while the third is now—through the efforts of those philanthropists who have given birth to really cheap moral and scientific literature (particularly Messrs. Chambers of Edinburgh)—placed within the reach of every class of the community.

Messrs. Chambers have lately added to their other means of instruction a series of cheap books on education, in which the lights of modern knowledge are brought together to illuminate and render practical this interesting subject. Europe is, at this moment, only waking out of the slumbers of the dark ages; she is beginning to discover that she is ignorant, and to desire instruction. The sun of knowledge, however, is still below the horizon to vast multitudes of our British population; but they are startled by a bright effulgence darting from a radiant sky, and they now know that that light is the dawn of a glorious day, which will tend to terminate their troubled dreams of ignorance and folly. Let us help to arouse them—let us lead them to pay their morning orisons in the great temple of universal truth. When they shall have entered into that temple, let us introduce them to nature and to nature's God; and let us hasten the hour when the whole human race shall join together, to celebrate his power, wisdom, and goodness, in strains which shall never cease till creation pass away; for we know that the sun of knowledge, unlike the orb of day, when once risen, will never set, but will continue to emit brighter and brighter rays, till time shall be no more. In eternity, alone, can we conceive the wonders of creation to be completely unfolded, and the mind of man to be satiated with the fulness of information.

In the present course of lecture, I am treating merely of *duties*; and when I point out to you the foundation and extent of the duty of educating your children, it is all that I can accomplish. I cannot here discuss the *manner* in which you may best discharge this obligation. This instruction can be obtained only by a thorough education of your own minds; and the courses of lectures provided by the Philosophical Association are admirable auxiliaries to the attainment of this end. After you have become acquainted with anatomy and physiology as the keys to the physical constitution of man; with phrenology as the developement of his mental constitution; with chemistry, natural history, and natural philosophy as expositions of the external world; and with political economy and moral philosophy as the sciences of human action; you will be in possession of the rudimentary or elementary knowledge necessary to enable you to comprehend and profit by a course of lectures on practical education, which is really the application of

this knowledge to the most important of all purposes, that of training the body to health, and the mind to virtue, intelligence, and happiness. I hope that the directors of this association will hereafter induce some qualified lecturer to undertake such a course; but I beg leave to express my humble conviction, that no error is more preposterous than that which leads many persons to suppose that, *without this preliminary or elementary knowledge*, parents can be taught *how* to educate their children successfully.

The process of education consists in training faculties and communicating knowledge; and it appears to me to be about as hopeless a task to attempt to perform this duty by mere rules and directions, as it was for the Israelites to make bricks in Egypt with straw. I am the more anxious to insist on this point, because no error is more common in the practical walks of life, than the belief that a parent may be taught how to educate a child without undergoing the labour of educating himself. Many parents of both sexes, but particularly mothers, have told me, that if I would lecture on education, they would come and hear me, because they considered the education of their children to be a duty, and were disposed to sacrifice the time necessary for obtaining instruction to discharge it. When I recommended to them to begin by studying physiology, chemistry, natural philosophy, and phrenology, at least to so great an extent as to be able to comprehend the nature of the body and mind which they proposed to train, and of the objects by which the mind and body are surrounded, and on which education is intended to enable them to act—they instantly declared that they had no time for these extensive inquiries, and that information about *education* was what they wanted, as *it* alone was necessary to their object. I told them in vain that these were preliminary steps to any available knowledge of education. They were so ignorant of mind and of its faculties and relations, that they could not conceive this to be the case, and refused to attend these courses of instruction.

If I could succeed in persuading you of the truth of this view, the permanence of this association and the success of its lectures would be secured; because the industrious citizens of Edinburgh would prize it as a grand means of preparing their own minds for the important duty of educating their children, and would no longer come hither merely

to be amused or to pass an idle hour; they would regard every science taught by this association as a step toward the attainment of the most important object of human life—that of training the young to health, intelligence, virtue, and enjoyment.*

The next duty of parents is, to provide suitably for the outfit of their children in the world. If I am right in my fundamental principles, that happiness consists in well regulated activity of the various functions of the body and mind, and that the world is designedly arranged by the Creator with a view to the maintenance of our powers in this condition of activity—it follows that a parent who shall have provided a good constitution for his child, preserved him in sound health, thoroughly educated him, trained him to some useful calling, and supported him until he have become capable of exercising that calling—will have discharged the duty of maintenance in its highest and best sense. I regard it as of much importance to children to give them correct views of the real principles, machinery, and objects of life, and to train them to act systematically in their habitual conduct.

What should we think of a merchant who should embark himself, his wife, family, and fortune, on board of a ship; and who should take the command of it himself, and set sail on a voyage of adventure, without knowledge of navigation, without charts, and without having any particular port of destination in view? We should consider him as a lunatic; and yet many men are launched forth on the sea of active life, as ill provided with knowledge and objects, as the individual here imagined. Suppose, however, our adventurous navigator to use the precaution of placing himself under convoy, to attach himself to a fleet, and to sail when they sailed, and stop where they stopped, we should still lament his ignorance, and reckon the probabilities great of his running foul of his companions in the voyage, foundering in a storm, being wrecked on shoals or sunken rocks, or making an unproductive speculation even if he safely attained a trading port. This simile appears to me to be scarcely an exaggeration of the condition in which young men in general embark in the business of the world The great

* I regret to mention that the hope expressed in the text of the permanence of the lectures of the Philosophical Association has not been realized. They have already ceased. 1840.

mass of society is the fleet to which they attach themselves; it is moving onward and they move with it; sometimes it is favoured with prosperity, sometimes overtaken by adversity, and they passively undergo its various fates; sometimes they make shipwreck of themselves by running foul of their neighbours' interests, or by deviating from the course, and encountering hazards peculiarly their own; but in all they do, and in all they suffer, they obey an impulse from without, and rarely pursue any definite object except the acquisition of wealth, and they follow even it without a systematic plan. If you consider that this moving mass called society is only a vast assemblage of individuals, nearly all equally ignorant, and that the impulses which they obey are merely the desires of the most energetic minds, pursuing, often blindly, their individual advantage you cannot be surprised at the strange gyrations which society has so often exhibited. In rude ages, the leaders and the people loved "the pride, pomp, and circumstance of glorious war," and they moved to the sound of the trumpet, and rejoiced in the clang of arms. In our day, the leaders steer to wealth and fame, and the mass toils after them as best it may. In one year a cotton mania seizes the leaders, and vast portions of the people are infected with the disease. In another year a mania for joint stock companies attacks them, and their followers again catch the infection. In these varying aspects of social movements we discover nothing like a well considered scheme of action, adopted from knowledge, and pursued to its results. The leaders, and the multitude appear equally to be moved by impulses which control and correct each other by collision and concussion, but in each of which thousands of individuals are crushed to death, although the mass escapes and continues to move forward in that course which corresponds to the direction of the last force which was applied to it.

It appears to me that, by correct and enlarged knowledge of human nature, and of the external world, the young might be furnished with a chart and plan of life, suited to their wants, desires, and capacities, as rational beings, and which would enable them, if they possessed energy to become leaders, to steer the social course with greater precision, safety, and advantage, than in bygone times: or, if they were humble members of the body politic, to shape

their individual courses, so as in some degree to avoid the collisions and concussions which reckless ardour, in alliance with ignorance, is ever producing. A young man, if properly instructed, should commence active life with a clear perception of the results to which the various courses of action submitted to his choice are calculated to lead, and the steps by which these results are in general evolved. This advantage, however, is rarely possessed, and the young are left to grope their way, or to join the convoy and sail with the fleet, as they prefer.

Under the present system of instinctive and imitative action, one or other of two errors generally infects the youthful mind. If the parents have long struggled with pecuniary difficulties, and suffered under the depression of poverty, but ultimately, after much exertion and painful self-denial, have attained to easy circumstances—they teach their children almost to worship wealth, and at the same time fill their minds with vivid ideas of laborious exertion, sacrifices, difficulties, cares, and troubles, as almost the only occurrences of life. The idea of enjoyment is closely allied with that of sin; and young persons thus trained, if they possess well constituted brains, often become rich, but rarely reap any reasonable satisfaction from their earthly existence. They plod, and toil, and save, and invest; but cultivate neither their moral nor their intellectual faculties, and at the close of life complain that all is vanity and vexation of spirit.

The second error is diametrically the opposite of this one. Parents of easy, careless dispositions, who have either inherited wealth, or been successful in business without much exertion, generally teach their children the art of enjoying life without that of acquiring the means of doing so; and such children enter into trade or engage in professions under the settled conviction (not by their parents, perhaps, in direct terms, but insensibly instilled into their minds by example) that the paths of life are all level, clear, and smooth; that they need only to put the machinery of business into motion; and that, thereafter, all will go softly forward, affording them funds and leisure for enjoyment, with little anxiety, and very moderate exertion. Young persons thus instructed, if they do not possess uncommonly large organs of Cautiousness and Conscientiousness, go gayly on in active life for a brief space of time, and then become the victims of a

false system and of inexperience. They are ruined, and suffer countless privations. The errors of both of the modes of training the young should be avoided.

After health, education, and virtuous habits, the best provision that a parent can make for his son is, to furnish him with sound views of his real situation as a member of the social body. The Creator having destined man to live in society, the social world is so arranged that an individual, illuminated by a knowledge of the laws which regulate social prosperity, by dedicating himself to a useful pursuit, and fulfilling ably the duties connected with it, will meet with very nearly as certain a reward, in the means of subsistence and enjoyment, as if he raised his food directly from the soil. There are astonishing regularity and stability discoverable in the movements of the social world, when its laws of action are understood. The labourer, artisan, manufacturer, and professional practitioner, find the demands for their labour, goods, or other contributions to the social welfare, to follow one after another with constancy and regularity, so that, with ability, attention, and morality, they are very rarely indeed left unprovided for. It is of great importance to press home this truth on the minds of the young, and to open their understandings to a perception of the causes which operate in producing this result, that they may enter into active life with a just reliance on the wisdom and goodness of the Creator, in providing the means of subsistence and enjoyment for all who discharge their social duties; and yet with a feeling of the necessity of knowledge, and of the practice of that moral discipline which enforces activity and good conduct at every step, as the natural and indispensable conditions of success.

In our own country, the duty of teaching sound and practical views of the nature of man as an individual, and of the laws which regulate his social condition, to the young, has become doubly urgent since the passing of the reform act. Under the previous system of government, only the wealthy were allowed to exercise the political franchise; and as education was a pretty general concomitant of wealth, power and knowledge (so far as knowledge existed) were to a great degree united in the same hands. Now, however, when great property is no longer indispensable to the exercise of political power, it is necessary to extend and improve general education. The middle classes of this

country have, in their own hands, the power of returning a majority of the house of commons; and as the commons hold the strings of the national purse, and, when nearly unanimous, exercise an irresistible influence in the state, it is obvious that those who elect them ought to be educated and rational men.

In past ages, government has been conducted too often on short-sighted empirical principles, and rarely on the basis of a sound and comprehensive philosophy of man's nature and wants: hence the wars undertaken for futile and immoral purposes; hence the heavy taxes which oppress industry and obstruct prosperity; hence, also, the restrictions, protections, and absurd monopolies, which disgrace the statute-book of the nation; all which are not only direct evils, but are attended by this secondary disadvantage that they have absorbed the funds, and consumed the time and mental energy, which, under a better system, would have been dedicated to the improvement of national and public institutions. Henceforth the government of this country must be animated by, and act up to, the general intelligence of the nation; but it will be impossible for it to advance to any considerable extent beyond it. Every patriot, therefore, will find in this fact an additional motive to qualify himself for expanding the minds and directing the steps of the rising generation, that Britain's glory and happiness may pass, untarnished and unimpaired, to the remotest posterity of virtuous and enlightened men.*

The question next arises, What provision in money or land is a parent bound to make for his children? To this no answer, that would suit all circumstances, can be given. As parents cannot carry their wealth to the next world, it must of course be left to some one; and the natural feelings of mankind seem to dictate that it should be given to

* The remarks in the text apply with still greater force to the United States of America. There the supreme political power is wielded by the mass of the people. No rational person will maintain that one ignorant man is a proper ruler for a great nation; but additions to numbers do not alter the species. Twenty, or a hundred, or a thousand ignorant men, are not wiser than one of them; while they are much more dangerous. They inflame each other's passions, keep each other's follies in countenance, and add to each other's strength. If the United States, therefore, desire to avoid anarchy and ruin, they must educate the mass of their people.

those who stand nearest in kindred and highest in merit in relation to the testator. With respect to children, in ordinary circumstances, this cannot be questioned; for it is clearly the duty of parents to do all in their power to make happy the existence of those whom they have brought into the world. But difference of customs in different countries, and difference of ranks in the same country, render different principles of *distribution* useful and proper. In Britain, a nobleman who should distribute £100,000 equally among ten children, would do great injustice to his eldest son, to whom a title of nobility would descend, with its concomitant expenses; but a merchant who had realized £100,000, would act more wisely and justly in leaving £10,000 to each of ten children, than in attempting to found a family by entailing £82,000 on his eldest son, and leaving only £2000 to each of the other nine. I consider hereditary titles as an evil to society, and desire their abolition; but while they are permitted to exist, the distribution of wealth should bear reference to the expenses which they necessarily entail on those who inherit them. The United States of America have wisely avoided this institution; and by the laws of most of these states, an equal distribution of the family estate, real and personal, among all the children, ensues on the death of the parents. This practice appears to me to be wise and salutary. It tends to lessen that concentration of all thought and desire on themselves and their families, which is the besetting sin of the rich, and it teaches them to perceive that the prosperity of their children is indissolubly linked with that of their country. As a general rule, parents ought to make the largest provisions for those members of their families who are least able, from sex, constitution, capacity, or education, to provide for themselves.

In the lower ranks of life, where both sexes engage in labour, an equal distribution may, other circumstances being equal, be just; in the middle ranks, in which it is the custom for males to engage in business, but in which females do not, in general, labour—if the parents have a numerous family and moderate fortune, I should consider the sons amply provided for, by furnishing them with education and a calling; while the property of the parents should be given chiefly to the daughters. It is impossible, however, as I have already hinted, to lay down rules that will be universally applicable.

It is a grave question whether the indefinite accumulation of wealth ought to be allowed ; but, however this may be determined, there ought to be no restriction on the power of spending and disposing of property. Entails are a great abuse, introduced by Self-Esteem and Love of Approbation acting apart from Benevolence and Conscientiousness. The Creator has obviously intended that wealth should be enjoyed only on the condition of the exercise of at least average discretion by its possessor; yet the object of entails is to secure it and its attendant influence to certain heirs, altogether independently of their intelligence, morality, and prudence. Laws have been enacted by which it is contemplated that estates should be transmitted unimpaired from sire to son, through endless generations, although each possessor, in his turn, may be a pattern of vice and imbecility. But the law of Nature is too strong to be superseded by the legislation of ignorant and presumptuous men The children of intelligent, virtuous, and healthy parents, are so well constituted as to need no entails to preserve their family estates and honours unimpaired; while, on the other hand, children with immoral dispositions are prone, in spite of the strictest entail, to tarnish that glory and distinction which the law vainly attempts to keep in brightness. Accordingly, many families, where a good mind descends, flourish for centuries without entails ; whereas others, in which immoral or foolish minds are hereditary, live in constant privation, notwithstanding the props of erroneous laws ; each immoral heir of entail mortgages his liferent right, and lives a beggar and an outcast from his artificial sphere of life.

The organic laws afford the only means acknowledged by the Creator, of maintaining family possessions undissolved ; and until men shall resort to obedience to them, as the means of preserving a great, virtuous, and flourishing posterity, they will in vain frame acts of parliament to attain this object.

Parents have *rights* as well as *duties* in relation to their children. They are entitled to the produce of the child's labour during its non-age ; to its respect and obedience , and, when infirm, to maintenance, if necessary. These rights on the part of the parents imply corresponding duties incumbent on the children. The obligation on the children to discharge them, flows directly from the dictates of Vene-

ration, Conscientiousness, and Benevolence. It has often been objected to phrenology that it presents no organ of filial piety. It points to the three moral organs as contributing to the fulfilment of duty to parents. Veneration dictates reverence, respect, and obedience; Conscientiousness dictates gratitude, or a return for their care and affection; while Benevolence impels to the promotion of their happiness by every possible means. Adhesiveness binds old and young in the bonds of reciprocal attachment.

In the lower and middle ranks of life, the want of respect and obedience on the part of children is extensively complained of; but the general cause of this evil is the want of sufficient knowledge and goodness in the parents to render them really objects of respect to the higher sentiments of their children. The mere fact of being father or mother to the child, is obviously not sufficient to excite its moral affections.* The parent must manifest superior wisdom and intelligence, and also a disposition to promote its welfare; and then respect and obedience will be the natural fruits. The attempt to render a child respectful and obedient by merely telling it to be so, is not less absurd than would be the endeavour to make it fond of music by assuring it that filial duty requires that it should love melody. We must present music itself to the faculty of Tune; and in like manner the moral sentiments must be addressed by *their* appropriate objects. Harsh conduct tends strongly to rouse the faculties of Combativeness, Destructiveness, and Self-Esteem; while the Moral Sentiments can be excited only by rational, kind, and just treatment. As reasonably might a tyrannical father hope to gather figs from a bramble-bush, as to be loved and respected by his ill-treated children. If a parent desire to have a docile, affectionate, and intelligent family, he must habitually address himself to their moral and intellectual powers; he must make them feel that he is wise and good—exhibit himself as the natural object of attachment and respect; and by average children, performance of these duties will not be withheld.

* An American clerical Reviewer objected to the text, that it sets aside the Bible, which commands children to honour their father and mother without regard to their qualities. He forgets that the Scriptures require parents to adorn themselves with all the Christian virtues, and that the fifth commandment obviously implies that they have fulfilled this duty.

If parents knew and paid regard to the mental and bodily constitution of the young, they would be far less frequently disobeyed than they actually are. Many of their commands forbid the exercise of faculties which in children pant for gratification, and which Nature intended to be gratified; and the misery and disappointment consequent on balked desire have an effect very different from that of disposing to affection and obedience. The love of muscular motion, for instance, is irrepressible in children, and physiology proves that the voice of Nature ought to be carefully regarded; yet the obedience of children to this instinct is, in most cases, strictly prohibited, that the family or teacher may not be disturbed by noise; faculties are called on to work which Nature intended to operate at a later period of life; the health and happiness of the children are impaired; and if the peevishness which ensues be unpalatable to the parents, they should ascribe the evil to their own irrational treatment.

A friend, who is the father of several intelligent children, told me that, before he studied phrenology and the natural laws, he taught his children the shorter catechism, and required their obedience on the strength of the fifth commandment, "Honour thy father and thy mother, that thy days may be long in the land which the Lord thy God giveth thee," assuring them that God would punish them by premature death if they disobeyed this commandment. God, he said, had power of life and death over all, and, as he was just, he would enforce his authority. The children soon learned, however, by experience, that this consequence did not actually follow: they disobeyed, and were threatened; but, finding themselves still alive, they disobeyed again. He was not successful, therefore, by this method, in enforcing obedience.

After becoming acquainted with the natural laws, he still taught them the commandment, but he gave a different explanation of it. You see, said he, that there are many objects around you very dangerous to your lives: there is fire that will burn you, water that will drown you, poison that will kill you; and, also, there are many habits and practices which will undermine the constitution of your vital organs; such as your heart, your stomach, or your lungs, (explaining these at the same time,) and cause you to die; as you have seen John and Janet, the children of Mrs. Wilson and Mrs. Brown, die. Now, because I

am old, and have listened to my parents, and have studied and observed a great deal, I know what will injure you, and what will not, which you do not know yourselves; and I am willing to communicate all my knowledge and experience to you, that you may avoid danger and not die, if you choose to listen to, and obey me: but, if you prefer taking your own way, and acting on your own ignorance, you will soon discover that God's threat is not an empty one; you will come home some day, suffering severely from your own rashness and self-will, and then you will learn whether you were right in your disobedience; you will then understand the meaning of the commandment to be, that if you obey your perents, and avail yourself of their knowledge and experience, you will avoid danger and live; if you neglect their counsels, you will, through sheer ignorance and self-will, fall into misfortune, suffer severely, and perhaps die. He said that this commentary, enforced from day to day by proofs of his knowing more than the children did, was successful; they became much more obedient, and entertained a higher respect both for the commandment and for him.

It is a common practice with nurses, when a child falls and hurts itself, to beat the ground, or the table, against which it has struck. This is really cultivating the feeling of revenge. It gratifies the child's Self-Esteem and Destructiveness, and pacifies it for the moment. The method of proceeding dictated by the natural law is widely different. The nurse or parent should take pains to explain the cause of its falling, and present it with motives to take greater care in future. The suffering would thus be turned to good account; it would become, what it was intended by Providence to be, *a lesson* to lead the child to wisdom and virtue —to patience, to circumspection, and to reflection. In exacting obedience from children, it should never be forgotten that their brains are very differently constituted from each other, and that their mental dispositions vary in a corresponding degree. The organ of Veneration, besides, is generally late in being developed, so that a child may be stub born and unmanageable under one kind of treatment, or at one age, who shall prove tractable and obedient under a different discipline, or at a future period. The aid which parents may derive from phrenology can hardly be over rated. It enables them to appreciate the natural talents and dispositions of each child, to modify their treatment

and to distinguish between positively vicious tendencies (such as deceit, lying, and dishonesty) and other manifestations, (such as stubbornness and disobedience,) which often proceed from misdirection of qualities that will prove extremely useful in the maturity of the understanding. The reason for watchfulness and anxiety is much greater in the former than in the latter case; because dishonesty, falsehood, and pilfering, betoken not only over-active organs of Secretiveness and Acquisitiveness, but a native deficiency of the controlling moral organs, which is a more serious evil. When the moral organs are adequately possessed, the perceptions of children regarding right and wrong are naturally active and extremely acute; and although individuals with a large developement of the organs of the higher sentiments may commit aberrations in youth, under the impulse of the propensities, they will certainly improve as age and experience increase. Where the moral organs are very defective, the individual tends to deterioration of character in mature life. After the restraints imposed by parental authority are withdrawn, and respect for the world is blunted, persons deficient in these faculties are prone to become victims to their inferior feelings, and to disgrace themselves and bring sorrow on their connexions.

As some individuals are really born with such deficiencies of the moral organs as incapacitate them for pursuing right conduct, although they possess average intellect, and are free from diseased action of the brain; and as there is no legal method of restraining them unless they commit what the law accounts crime; great misery is often endured by their relatives in seeing them proceed from one step of folly and iniquity to another, until they are plunged into irretrievable ruin and disgrace. The phrenologist who discovers that the source of the evil lies in an imperfect developement of the moral organs, views them as patients, and desires that physical restraint should be applied to prevent the abuses of their lower propensities, which they have not morality sufficient to command.* But there is no law

* A writer in the New York Review stigmatizes the doctrine in the text, as being "calculated to weaken our sense of accountability, or shake our confidence in moral distinctions." He quotes from the "Reports" of these lectures the following words: "Extensive observation of the heads of criminals, and inquiry into their feelings and histories, place it beyond a doubt

authorizing their relatives to treat them in this manner against their inclinations. In the neighbourhood of Paris, however, Mons. Voison, an intelligent phrenologist, has opened an institution for the reception of patients of this description, who are still under parental authority, or that of guardians. He receives youths who are not labouring under any disease or derangement of their faculties, but whose organs are so unfavourably combined, that, when left to their instinctive impulses in ordinary society, and under the usual guidance, they cannot refrain from immorality. He proceeds in his whole treatment on phrenological principles, openly and avowedly. In the first place, he withdraws external temptation; for the children live in an establishment apart from ordinary society. Secondly, he imposes restraint; for each patient is attended constantly by a tutor, or superior servant, who is chargeable with superintending his ac-

that in many of them conscience is, and always has been, either very defective, or *had literally no existence.*" "It is extremely questionable whether society should punish severely those who err through moral blindness arising from deficiency of certain parts of the brain." The Reviewer does not propose to inquire whether this statement be borne out by *facts* or not; but at once *assumes* that *it is not*, and proceeds thus: "This is, indeed, 'a Revelation,' and there can be little doubt that at Sing-Sing and Auburn it would receive a most cordial reception." As my motto is "*res non verba*," (facts not arguments,) I submit the following narrative to the consideration of the Reviewer, and of other persons in a similar frame of mind to his. On the 22d October, 1839, I visited the state-prison of Connecticut, at Wethersfield, accompanied by the Rev. Mr. Gallaudet, the Rev. Principal Totten, Dr. A. Brigham, and four or five other gentlemen, who had attended my course of lectures on phrenology, then nearly concluded at Hartford. I had illustrated the doctrine in the text by the exhibition of numerous casts, and impressed on their minds the peculiar forms of developement which distinguish the best from the worst constituted brains. Mr. Pillsbury, the superintendent of the prison, brought a criminal into his office, without speaking one word concerning his crime or history. I declined to examine his head myself, but requested the gentlemen who accompanied me to do so, engaging to correct their observations, if they erred. They proceeded with the examination, and stated the inferences which they drew respecting the natural dispositions of the individual. Mr. Pillsbury then read from a manuscript paper, which he had prepared before we came, the character as known to him. The coincidence between the two

tions at all times, and keeping a constant watch over him. Thirdly, he uses every active means to cultivate and strengthen the organs that are deficient, by exercise and instruction. He and his partner, and his partner's wife, live among them and superintend the whole. The establishment is very recent, and its success is yet unascertained.* It has received some pupils from France, and already one from Britain. Similar institutions are much wanted in this country, and they ought to be established, and aided by the law. I know of numerous and most distressing examples of young persons going to utter and irreclaimable ruin both in property, health, and character, who by no human means, if not by such institutions, could have been saved.†

My conviction is, that if parents have transmitted to their children well balanced and favourably developed brains, and if they have done their duty in training, educating, and

was complete. This prisoner was withdrawn, another was introduced, and the same process was gone through, and with the same result in regard to him. So with a third, and a fourth. Among the criminals, there were striking differences in intellect and in some of the feelings, which were correctly stated by the observers.

These experiments, I repeat, were made by the gentlemen who accompanied me; and as some of them were evangelical clergymen, of the highest reputation, I requested them to manipulate their heads. They did so, and inferred the dispositions from actual perception of the great deficiencies in the moral organs, and the predominance of the animal organs, in those individuals whom Mr. Pillsbury pronounced to be, in his opinion, incorrigible; for the question was solemnly put to him, by Dr. Brigham, whether he found any of the prisoners to be irreclaimable under the existing system of treatment, and he acknowledged that he did. One of the individuals who was examined had been thirty years in the state-prison, under four different sentences, and in him the moral region of the brain was exceedingly deficient. I respectfully pressed upon the attention of the reverend gentlemen, that the facts which they had observed were institutions of the Creator, and that it was in vain for man to be angry with them, to deny them, or to esteem them of light importance.

* I regret to hear that this institution was not successful, chiefly from very lax management. 1840.

† The Houses of Refuge for Juvenile Delinquents, in the United States, correspond, in some degree, to the institutions mentioned in the text as wanting, but they do not fulfil the whole requisites.

fitting them out in the world, they will rarely have cause to complain of ingratitude or want of filial piety. Where the brains of the children are ill constituted, or where training and education have been neglected or improperly conducted, the parents, in reaping sorrow and disappointment from the behaviour of their offspring, are suffering the natural consequences of their own actions; and if these are punishments, they should read in them an intimation of the divine displeasure with their conduct. In proportion to the developement and cultivation of the moral and intellectual faculties, are gratitude and filial piety strongly and steadily manifested by children. In the middle ranks, and among the well-principled and respectable members of the lower ranks, it is rare to see parents left in destitution by their children who are at all capable of maintaining them; but among the heartless, reckless, and grossly ignorant, it is not uncommon. The legal provision which must be made by the parish for the poor, has tended to blunt the feelings of many individuals in regard to this duty; yet great and beautiful examples of its fulfilment are frequent, and we may expect that the number of these will increase as education and improvement advance.

Among the domestic duties I might enumerate the reciprocal obligations of masters and servants; but as the general principles which ought to regulate the conduct of men as members of society apply also to this relationship, I shall not enter into them at present.

LECTURE VIII.

Theories of philosophers respecting the origin of society—Solution afforded by Phrenology—Man has received faculties the spontaneous action of which prompts him to live in society—Industry is man's first social duty—Labour, in moderation, is a source of enjoyment, and not a punishment—The opinion that useful labour is degrading examined—The division of labour is natural, and springs from the faculties being bestowed in different degrees of strength on different individuals—One combination fits for one pursuit, and another for another—Gradations of rank are also natural, and arise from differences in native talents and in acquired skill —Gradations of rank are beneficial to all.

I PROCEED now to consider those *social duties and rights* which are not strictly domestic. The first subject of in-

quiry is the origin of society itself. On this question many fanciful theories have been given to the world. It has engaged the imagination of the poet and the intellect of the philosopher. Ovid has described mankind as at first in a state of innocence and happiness during what is termed the golden age, and as declining gradually into vice and misery through the silver, brazen, and iron ages:

> The golden age was first, when man, yet new,
> No rule but uncorrupted reason knew;
> And with a native bent, did good pursue.
> Unforced by punishment, unawed by fear,
> His words were simple, and his soul sincere.
> * * * * *
> No walls were yet; nor fence, nor moat, nor mound,
> No drum was heard, nor trumpet's angry sound;
> Nor swords were forged; but void of care and crime,
> The soft creation slept away their time.
> * * * * *
> The flowers, unsown, in fields and meadows reigned,
> And western winds immortal springs maintained.
> In following years, the bearded corn ensued,
> From earth unasked, nor was that earth renewed
> From veins of valleys milk and nectar broke,
> And honey sweating through the pores of oak."

To this succeeded too rapidly the silver, the brazen, and the iron ages; which last, the world had reached in the days of Ovid, and in which, unfortunately, it still remains.

Rousseau, who was rather a poet than a philosopher, has written speculations "on the origin and foundations of the existing inequalities among men," which have powerfully attracted the attention of the learned. He informs us that he "sees man such as he must have proceeded from the hands of Nature, less powerful than some animals, less active than others, but, taking him on the whole, more advantageously organized than any. He sees him satisfying his hunger under an oak, quenching his thirst at the first rivulet, finding his bed under the trees whose fruit had afforded him a repast, and thus satisfied to the full of every desire."*

"It is impossible," continues he, "to conceive how, in this original condition, one man could have more need of

* Discours sur L'Origine et les Fondemens d'Inegalité par mi les Hommes. 4to. edit., Geneva, 1782, p. 48.

another than a wolf or an ape has of his fellows; or, supposing the need to exist, what motive could induce the other to satisfy it; or how, in this latter case, the two could agree upon the terms of their social intercourse."

From these premises Rousseau draws the conclusion that "the first who, having enclosed a piece of ground, took upon himself to call it '*mine*,' and found individuals so foolish as to believe him, was the true founder of civil society." What crimes, what wars, what murders, what miseries and horrors, would he have spared to the human race, who, tearing up the land-marks, or filling up the ditches, had cried to his equals, 'Beware how you listen to this impostor! You are undone if you forget that the fruits of the earth belong to all, and the soil to none!'" P. 87.

The fundamental error in Rousseau's speculation is, that he endows man, in his primitive condition, with whatever faculties he pleases; or rather he bestows upon him no principles of action but such as suit his own theory. Numerous antagonists have combated these speculations, and, among others, Wieland has written half a volume on the subject; but their absurdity is so self-evident, that I do not consider it necessary to enter into any lengthened refutation of them. The mistake of such theorists is, that they assume the mind to be altogether passive—to have no spontaneous activity giving origin to wants or desires: they ascribe the creation of almost all our propensities and tastes to the circumstances in which they were first manifested. The ear, in a state of health, hears no sounds till excited by the vibrations of the air, and they imagine the mind to be similar in its constitution.

This mode of philosophizing resembles that which should account for an eruption of Mount Vesuvius by ascribing it to the rent in the surface of the mountain, through which the lava bursts, instead of attributing it to the mighty energies of the volcanic matter buried beneath its rocks.

Other philosophers besides Rousseau have theorized on the constitution of society, without previously investigating the constitution of the human mind. Mr. Millar, in his "Observations concerning the Distinction of Ranks in Society," proceeds at once "to show the effects of poverty and barbarism with regard to the passions of the sex, to the general occupations of a people, and the degree of considera-

tion which is paid to the women as members of society,' without at all inquiring into the innate tendencies and capacities of man, from which the facts which he wishes to account for proceed. However interesting such a work may be as a contribution to the natural history of man, it throws no light on the question, whence the conditions which it records have arisen? It leaves the mind unsatisfied on the general and fundamental question, whether the whole aspect of society, such as it actually exists, has arisen from human institutions, arbitrary in their origin, and controllable by the human will; or whether it has sprung in any degree, and, if so, how far, from instincts referable to nature itself.

Lord Kames, one of the shrewdest and most observant philosophers of the old school, has taken a more rational view of the origin of society. Perceiving that man has been endowed with natural aptitudes and desires, he founds upon these every institution which has been universal among mankind. He attributes the origin of society to "the social principle." Men became hunters from a natural appetite to hunt, and by hunting appeased their hunger. They became shepherds from seeing that it was easier to breed tame animals than to catch wild ones, after hunting had made them scarce. Being shepherds, population increased, and necessity made them desire an increase of food. They saw the earth in some climates producing corn spontaneously, and the idea arose that, by forwarding its growth and removing obstructing weeds, more corn would be produced; and hence they became agriculturists. The idea of property sprang from the "hoarding appetite." Lord Kames ascribes the various institutions which exist in society to principles innate in the mind, and not to chance or factitious circumstances.

Locke and some other writers have assigned the origin of society to reason, and represented it as springing from a compact by which individual men surrendered, for the general welfare, certain portions of their private rights, and submitted to various restraints; receiving, in return, protection and other advantages arising from the social state. This idea also is erroneous. Society has always been far advanced before the idea of such a compact began to be entertained; and even then it has occurred only to the

minds of philosophers. What solution, then, does phrenology offer?

It shows that man possesses mental faculties endowed with spontaneous activity, which give rise to many desires equally definite with the appetite for food. Among these faculties are several which act as social instincts, and from the spontaneous activity of these society has obviously proceeded. The phrenologist, then, follows in the same track with Lord Kames; but the advantage which he possesses over his lordship consists in the superior precision with which, by means of studying the organs of the mind, he has ascertained the faculties which are really primitive, with their functions and spheres of action, and also the effects of differences in the relative size of the organs in different individuals.

From the three faculties of Amativeness, Philoprogenitiveness, and Adhesiveness, the matrimonial compact, as formerly stated, derives its origin. Adhesiveness has a yet wider sphere of action: it is the gregarious instinct, or propensity to congregate; it desires the society of our fellow-men generally. Hence, its existence demonstrates that the Creator intended us to live in the social state. The nature and objects of other faculties besides Adhesiveness, lead to the same conclusion. Neither Benevolence, which prompts us to confer benefits—nor Love of Approbation, whose gratification is the applause and good opinion of others—nor Veneration, which gives a tendency to respect, and yield obedience to, superiors—nor Conscientiousness, which holds the balance wherein the rights of competing parties are weighed—has full scope, and a sufficiently wide sphere of action, except in general society: the domestic circle is too contracted for the purpose.

The faculty of Conscientiousness, in particular, seems necessarily to imply the existence of the individual in the social state. To give rise to the exercise of justice and the fulfilment of duty, there must necessarily be two parties—the one to perform and the other to receive. Conscientiousness would be as little useful to a solitary human being, as speech to a hermit; while, even in the domestic circle, the faculties of Benevolence, Philoprogenitiveness, and Veneration, are more directly called into play than it. The head of the family bestows through affection and bounty; the dependents receive with gratitude and respect·

and the feeling of duty, on the part of either, rarely mingles its influence, when these other and more direct principles play with great and spontaneous energy. The sphere in which Conscientiousness is most directly exercised, is that in which the interests and inclinations of equals come into competition. Conscientiousness, aided by intellect, then determines the rights of each, and inspires them with the feeling that it is their *duty* to do so much, and to demand no more. Phrenology enables us to prove that Conscientiousness is not a factitious sentiment, reared up in society, as many moral philosophers and metaphysicians have taught —but a primitive power, having its specific organ. This fact is essential to my argument; and in my "System of Phrenology" I have exhibited the evidence by which it is established.

The adaptation of the intellectual faculties to society is equally conspicuous. The faculty of Language implies the presence of intelligent beings, with whom we may communicate by speech. The faculties of Causality and Comparison, which are the fountains of reasoning, imply our coexistence with other intellectual beings, with whose perceptions and experience we may compare our own. Without combination, what advance could be made in science, arts, or manufactures? As food is related to hunger, and light to the sense of vision, so is society adapted to the social faculties of man. The presence of human beings is indispensable to the gratification and excitement of our mental powers in general. What a void and craving is experienced by those who are cut off from communication with their fellows! Persons who are placed in remote and solitary stations on the confines of civilization, become dull in intellect, shy, unsocial, and unhappy. The most atrocious criminals, when placed in solitary confinement, without work, lose their ferocity, feel subdued, and speedily lose their health and vigour. The cause is, that the stimulus yielded to their faculties by the presence of their fellowmen is wanting. In the Eastern Penitentiary of Pennsylvania solitary confinement, with labour, has been tried, and it has been found to subdue the mind, without impairing the health; the mind finding excitement in the work performed. In the prisons of Auburn and Sing-Sing, in the state of New York, criminals have been compelled to work in silence and without communication with each other, but

in society. They are locked up in solitary cells during night, and in the morning are marched, in solemn silence, into a great workshop, where they see each other, but in which no interchange of word, look, or sentiment is permitted. The presence of their fellow-creatures sustains the social faculties, and despondency is not induced. The restraint produces a softening of the feelings to a certain extent, which predisposes the mind to receive moral impressions; while sufficient stimulus is, at the same time, afforded to the social sentiments to ward off too great a depression, amounting to disease.

The balmy influence of society on the human mind may be discovered in the vivacious and generally happy aspect of those who live in the bosom of a family, or mingle freely with the world; while the chilling effect of solitude is apparent in the cold, starched, and stagnant manners and expression of those who refrain from associating with their fellow-creatures.

A man whose muscular, digestive, respiratory, and circulating systems greatly predominate in energy over the brain and nervous system, stands less in need of society to gratify his mental faculties, than an individual oppositely constituted: he delights in active muscular exercise, and is never so happy as with the elastic turf beneath his feet and the blue vault of heaven over his head. But where the brain and nervous system are most energetic, there arise mental wants which can be gratified only in society, and residence in a city is felt indispensable to enjoyment: the mind flags and becomes feeble when not stimulated by collision and converse with kindred spirits. In short, the social state is plainly as natural to man as it is to the bee, the raven, or the sheep. This question being set at rest, the duties implied in the constitution of society are next to be considered.

The first duty imposed on man in relation to society is *industry*—a duty, the origin and sanction of which are easily discovered. Man is sent into the world naked, unprotected, and unprovided for. He does not, like the brutes, find his skin clothed with a sufficient covering, but must provide garments for himself; he cannot perch on a bough or burrow in a hole, but must rear a dwelling to protect himself from the weather; he does not, like the ox, find his nourishment under his feet but must hunt or cultivate the ground.

To capacitate him for the performance of these necessary duties, he has received a body fitted for labour, and a mind calculated to direct his exertions; while the external world has been created with the wisest adaptation to his constitution.

Many of us have been taught, by our religious instructors, that labour is a curse, and that the necessity for it was imposed by God on man as a punishment for sin. I remarked in the first lecture, that whether sin *was* or *was not* the cause which induced the Almighty to constitute man such as we now see him, an organized being, composed of bones, muscles, bloodvessels, nerves, respiratory and digestive organs, and a brain calculated to manifest a rational mind —and to confer on eternal nature its present qualities, adapted to give scope and exercise to these powers—philosophy cannot tell; but it humbly appears to me that, constituted as we actually are, labour, which, in its proper sense, means *exertion, either bodily or mental, for useful purposes*, is not only no calamity, but the grand fountain of our enjoyment.* Unless we exercise our limbs, what happiness can they afford to us? If we do not exercise them, they become diseased, and punish us with positive pain; so that the duty of bodily exertion is a law of God, written in all our system as strikingly as if it were emblazoned on the sky. Constituted as we are, it is not labour, but inactivity, which is an evil—that is, which is visited by God with suffering and disease. The misery of idleness has been a favourite theme of moralists in every age; and its baneful influence on the bodily health has equally attracted the notice of the physician and of observers in general. Happiness, in truth, is nothing but the gratification of active faculties; and hence, the more active our faculties are, within the limits of health, the greater is our enjoyment.

"Life's cares are comforts; such by heaven designed;
He that has none must make them, or be wretched.
Cares are employments, and without employ
The soul is on a rack, the rack of rest,
To souls most adverse—action all their joy."

* A prisoner in the jail of Ayr, on being permitted to labour, observed that "he never knew before what a pleasant thing work is."—*Fifth Report of the Inspector of Prisons*, p. 4.

The prevalent notion, that labour is an evil, must have arisen from ignorance of the constitution of man, and from contemplating the effects of labour carried to excess.

Bodily and mental activity, therefore, being the law of our nature and the fountain of our enjoyment, I observe, first, that they may be directed to *useful* or to *useless* purposes; and they may be carried to excess. Exertion for the attainment of useful objects is generally termed labour; and, because of its utility, men have, with strange perversity, looked upon it as degrading! Exertion for mere capricious self-gratification, and directed to no useful end, has, on the other hand, been dignified with the name of pleasure, and is esteemed honourable. These notions appear to be injurious errors, which obtain no countenance from the natural laws. Indeed, the proposition ought to be reversed. Pleasure increases in proportion to the number of faculties employed, and it becomes purer and more lasting, the higher the faculties are which are engaged in the enterprise. The pursuit of a great and beneficial object, such as providing for a family, or discharging an important duty to society, calls into energetic action not only a greater variety of faculties, but also faculties of a higher order, namely, the moral sentiments and intellect, than those frivolous occupations, miscalled pleasures, which are directed to self-indulgence and the gratification of vanity alone.

The reason why labour has so generally been regarded as an evil, is its very unequal distribution among individuals—many contriving to exempt themselves from all participation in it, (though not to the increase of their own happiness,) while others have been oppressed with an excessive share. Both extremes are improper; and the hope may reasonably be indulged in, that when society shall become so far enlightened as to esteem that honourable which God has rendered at once profitable and pleasant—and when labour shall be properly distributed, and confined within the bounds of moderation—it will assume its true aspect, and be hailed by all as a rational fountain of enjoyment.

Regarding bodily and mental activity, therefore, as institutions of the Creator, I observe, in the next place, that, as man has been destined for society, *a division of occupations* is indispensable to his welfare. If every one were to insist on cultivating the ground, there would be no manufacturers, carpenters, or builders. If all were to prefer the exercise

of the constructive arts, we should have no agriculturists and no food. The Creator has arranged the spontaneous division of labour among men by the simplest, yet most effectual, means. He has bestowed different combinations of the mental faculties on different individuals, and thereby given them at once the desire and the aptitude for different occupations. Phrenology renders clear the origin of differences of employment. The metaphysicians treat only of general powers of the mind; and, among the active principles, enumerate ambition, the love of power, the love of kindred, and so forth, while their catalogue of intellectual faculties embraces only Perception, Conception, Abstraction, Attention, Memory, Judgment, and Imagination. Many of them deny that individuals differ in the degrees in which they possess these powers; and ascribe all actual differences to education, association, habit, and a variety of similar causes.

With their philosophy for our guide, we are called on to explain by what process of arrangement, or chapter of accidents, the general powers of Perception, Memory, Judgment, and Imagination, fit one man to be a carpenter, another a sailor, a third a merchant, a fourth an author, a fifth a painter, a sixth an engineer, and how each has a distinct liking for his trade. If this opinion be true, how comes it to pass that some who utterly fail in one pursuit, succeed to admiration in another! and whence is it that there was no jostling in the community at first, and that very little harsh friction occurs now, in arranging the duties to be performed by each individual member! We next require a solution of the problem by what cause one man's ambition takes the direction of war, another's that of agriculture, and a third that of painting or making speeches, if all their native aptitudes and tendencies are the same, both in kind and degree; how one man delights to spend his life in accumulating wealth, and another knows no pleasure equal to that of dissipating and squandering it.

I do not detain you with the ingenious theories that have been propounded by the metaphysicians, as solutions of these questions, but come at once to the explanation afforded by the new philosophy. Phrenology teaches that man has received a variety of primitive faculties, each having specific spheres of action, and standing in specific relations to certain external bjects, and that we take an interest in these objects

in consequence of their aptitude to gratify our faculties. If a hare and a cat, for instance, were playing in the same field, and a mouse were to stray between them, the hare would see it pass without interest—while the cat's blood would be on fire, every hair would bristle, and it would pounce upon it to devour it. The cat possesses a carnivorous instinct, of which the mouse is the external object, and hence the source of its interest. The hare wants that instinct, and hence its indifference.

Every sane individual of the human race enjoys the same number of faculties, but each power is manifested by means of a particular portion of the brain, and acts with a degree of energy, other things being equal, corresponding to the size of that part. These parts or organs are combined in different relative proportions in different individuals. Hence, the individual in whom Combativeness and Destructiveness are the largest organs, desires to be a soldier; he in whom Veneration, Hope, and Wonder are the largest, desires to be a minister of religion; he in whom Constructiveness, Weight, and Form are largest, desires to be a mechanician; and he in whom Constructiveness, Form, Colouring, Imitation, and Ideality predominate, is inspired with the love of painting.

The Creator, by bestowing on all the race the same number of faculties, and giving similarity to their constitution, has fitted them for forming one common family. In consequence of our common nature, we understand each other's instincts, desires, talents, and pursuits, and are prepared to act in concert; while, by giving superiority in particular powers to particular individuals, he has effectually provided for variety of character and talent, and for the division of labour.

The division of labour, therefore, is not an expedient devised by man's sagacity, but a direct result of his constitution; exactly as it is in the case of any of the inferior animals which live in society and divide their duties without possessing the attribute of reason. When we discover differences of combination in size existing in the cerebral organs in different individuals, we receive another proof that man has been created expressly to live and act as a social being.

When we compare the corporeal frames of different individuals, we find that they differ in stature, strength, and

temperament; some are strong, active, and energetic; while others are feeble or sluggish. In a world in which the means of subsistence can be gained only by vigorous exertion, these differences alone would give rise to inferiority and superiority among individuals. But when we examine the brain, on which the mental qualities depend, we discover the differences between individuals, in regard to them, to be equally extensive and striking. In one man, the brain is large, the temperament is active, and the three regions of the animal, moral, and intellectual organs, are all favourably developed; such a person is one of nature's nobility. He is endowed with native energy by his temperament, and mental power by his brain; and he needs farther, only knowledge, with a fair field of action, to attain the highest prizes which are offered by a bountiful Creator to human virtue, industry, and talent. Another individual has inherited from birth the lymphatic temperament, and is constitutionally inert, or he has received a small brain, which is incapable of vigorous manifestations. In a scene where valuable objects can be attained only by capacity and energy, such a person must, of necessity, give place to him who has been favoured with higher endowments. A third individual, perhaps, has received several organs developed in a superior degree, which fit him to acquire distinction in a particular department of life; but he is deficient in other organs, and is in consequence unfit to advance successfully in other walks. Such a man may, if he choose his vocation wisely in relation to his special endowments, assume a high station; if unwisely, he may stand low in the scale of social consideration. These differences give rise to differences of rank.

Gradations of rank being thus institutions of God, those men are wild enthusiastic dreamers, and not philosophers, who contemplate their abolition. This proposition, however, does not imply approval of artificial distinctions of rank, independent of natural endowments. These are the inventions of ignorant and selfish men; they are paltry devices to secure, by means of parchments, the advantages of high rank, without the attributes which alone give a title to them under the laws of nature. As civilization and knowledge advance, these will be renounced as ridiculous, like the ponderous wigs, cocked hats, laced coats, and swords, of bygone centuries. It is unfortunate when a fool or rogue is the possessor of high rank and title; for these attract the

respect of many to his foolish or vicious deeds, and to his erroneous opinions.

The Creator has instituted still another cause of social differences. In this world, man has received only faculties, or mere powers and capacities, and external nature has been adapted to them; but he has not been inspired with intuitive *knowledge* of the best manner of applying his powers or with information concerning the qualities and adaptations of external objects, but been left to find out these by the exercise of his reason. Now, if we suppose that of twenty men whose brains, temperament, and bodily constitution, are alike, ten have sedulously applied their faculties to study nature, and to discover her capabilities, while the other ten have sought only pleasure in trivial pursuits, it is obvious that in all social attainments the former will speedily surpass the latter. If both classes wished to build a house, you would find the observing and reflecting men in possession of the lever, the pulley, the hammer, the axe, and the saw; while the hunters and the fishers would be pushing loads with their hands, or lifting them with their arms, and shaping timber with sharp-edged stones. In civilized society the same results appear. Any individual who has learned how to use his natural powers to the best advantage—in other words, who has acquired knowledge and skill—is decidedly superior to him who, although born with equal native talents, has never been taught the best method of applying them.

When we view the gradation of ranks such as Nature intended it to be, it presents itself as an institution beneficial to all. The man who stands at the bottom of the scale, does so because he is actually lowest either in natural endowments or in acquired skill; and in that lowest rank he enjoys advantages far more numerous than those he could command by *his* talents, if he stood alone. He derives many advantages from the superior abilities and acquirements of his fellow-men. In point of fact, an able-bodied, steady, and respectable labourer in Britian, is better clothed, better fed, and better lodged, than the chief of a savage tribe in New South Wales.

I anticipate that it will be objected, that although this may be a correct exposition of the origin of gradations of ranks, and that although, if the principles now explained were alone allowed to determine the station of individuals,

none would have just cause of complaint, yet the practical result is widely different; because weak, wicked, and indolent men, are often found in possession of the highest gifts of fortune and the loftiest pinnacles of rank; while able, good, and enlightened individuals, stand low in the scale in regard to both. This subject is too extensive and important to be entered upon at this advanced hour, and I shall therefore reserve it for our consideration in the next lecture.

LECTURE IX.

ON THE PAST, PRESENT, AND PROSPECTIVE CONDITIONS OF SOCIETY.

The question considered, Why are vicious or weak persons sometimes found prosperous, while the virtuous and talented enjoy no worldly distinction?—Individuals honoured and rewarded according as they display qualities adapted to the state of the society in which they live—Mankind hitherto animated chiefly by selfish faculties—Prospective improvement of the moral aspect of society—Retrospect of its previous conditions—Savage, pastoral, agricultural, and commercial stages; and qualities requisite for the prosperity of individuals in each—Dissatisfaction of moral and intellectual minds with the present state of society—Increasing tendency of society to honour and reward virtue and intelligence—Artificial impediments to this—Hereditary titles and entails—Their bad effects—Pride of ancestry, rational and irrational—Aristocratic feeling in America and Europe—Means through which the future improvement of society may be expected—Two views of the proper objects of human pursuit; one representing man's enjoyments as principally animal, and the other as chiefly moral and intellectual—The selfish faculties at present paramount in society—Consequences of this—Keen competition of individual interests, and its advantages and disadvantages—Present state of Britain unsatisfactory.

In the last lecture we considered the origin of society, of the division of labour, and of differences of rank. I proceed to discuss an objection which may be urged against some of the views then stated—namely, that occasionally persons of defective moral principle, though of considerable talent, and, in other instances, weak and indolent men, are found in possession of high rank and fortune, while able, good, and enlightened individuals stand low in the

scale of public honour. Let us endeavour to investigate the causes of this anomaly, and to inquire whether the evil admits of a remedy.

Man is endowed with two great classes of faculties, so different in their nature, desires, and objects, that he appears almost as two beings conjoined in one. I refer to the animal propensities and moral sentiments. The propensities have all reference to self-sustenance, self-gratification, or self-aggrandizement, and do not give rise to a single feeling of disinterested love or regard for the happiness of other beings. Even the domestic affections, when acting independently of the moral sentiments, prompt us to seek only a selfish gratification, without regard to the welfare of the beings who afford it. Examples of this kind may be met with, every day, in the seductions and temporary alliances of individuals of strong animal passions and deficient morality. We observe, also, that parents, in an ecstasy of fondness for their offspring, inspired by Philoprogenitiveness, sometimes spoil them, and render them extremely miserable; which is just indulging their own affections, without enlightened regard for the welfare of their objects. When Combativeness and Destructiveness are active, it is to assail other individuals, or to protect *ourselves* against their aggressions. When Acquisitiveness is pursuing its objects, the appropriation of property to ourselves is its aim. When Self-Esteem inspires us with its emotions, we are prompted to place ourselves, and our own interests and gratifications, first in all our considerations. When Love of Approbation is supremely active, we desire esteem, glory, praise, or advancement, as public acknowledgments of our own superiority over other men. Secretiveness and Cautiousness, from which arise *savoir faire* and circumspection, are apt allies of all the selfish desires.

The other class of faculties alluded to, is that of the moral sentiments, Benevolence, Veneration, and Conscientiousness; these take a loftier, a more disinterested and beneficent range. Benevolence desires to diffuse universal happiness. It is not satisfied with mere self-enjoyments. As long as it sees a sentient being miserable, whom it could render happy, it desires to do so; and its own satisfaction is not complete till that be accomplished. Veneration desires to invest with esteem, and treat with deference and respect, every human being who manifests virtue and

wisdom; and to adore the Creator as the fountain of universal perfection. Conscientiousness desires to introduce and maintain an all-pervading justice, a state of society in which the merits of the humblest individuals shall not be overlooked, but shall be appreciated and rewarded; and in which the pretensions of the egotist and the ambitious shall be circumscribed within the limits of their real deserts.

There are certain faculties which may be regarded as auxiliaries of these. Ideality desires to realize the perfect and the beautiful, in every object, and in every action. It longs for a world in which all things shall be fair, and lovely, and invested with the most perfect attributes of form, colour, action, and arrangement, and in which the human mind may manifest only dispositions in harmony with such a scene. Wonder desires the new and the untried, and serves to urge us forward in our career of improvement; while the sentiment of Hope smooths and gilds the whole vista of futurity presented to the mind's eye; representing every desire as possible to be fulfilled and every good as attainable.

The intellectual faculties are the servants equally of both orders of faculties. Our powers of observation and reflection may be employed in perpetrating the blackest crimes, or performing the most beneficent actions, according as they are directed by the propensities, or by the moral sentiments.

We have seen, that among these faculties there are several which render man a social being; and we find him, accordingly, living in society, in all circumstances and stages of refinement. But, according as the ruling motives of a nation are deprived from the one class or the other, it is obvious that it will elevate very different characters to its highest places of honour and emolument. Where the selfish faculties have unbridled sway, rapine, fraud, tyranny, and violence prevail: on the other hand, a people in whom the moral sentiments are sufficiently vigorous, pursue private advantage with a constant respect to the rights of other men. In the former state of society, we should naturally expect to find selfish, ambitious, and unprincipled men, who are strong in mind and body, in possession of the highest rank and greatest wealth; because, in the contention of pure selfishness, such qualities alone are fitted to succeed. In a society of men animated by the moral sentiments and intellect as their leading impulses, we should expect to find places of the highest honour and advantage occupied by the

most intelligent and usefully active members of the community; because, in such a society, these qualities would be most esteemed. The former state of society characterizes all barbarous nations; and the latter, which is felt by well-constituted minds to be the great object of human desire, has never been fully realized. By many, the idea of it is regarded as Utopian; by others, its attainment is believed possible; by all, it is admitted to be desirable. It is desired, because the moral sentiments exist, and because they instinctively long for the reign of peace, good will, refinement, and enjoyment, and are grieved by the suffering which so largely abounds in the present condition of humanity.

The question is an important one, Whether man be destined to proceed, in this world, till the end of time, constantly desiring pure and moral constitutions, yet ever devoting himself to inferior objects, and the unsatisfying labours of misdirected selfishness, vanity, and ambition: or whether he will, at length, be permitted to realize his loftier conceptions and his best desires.

The fact of the higher sentiments being constituent elements of our nature, seems to warrant us in expecting an illimitable improvement in the condition of society. Unless our nature had been fitted to rise up to the standard which these faculties desire to reach, we may presume that they would not have been bestowed on us. They cannot have been intended merely to dazzle us with phantom illusions of purity, intelligence, and happiness, which we are destined for ever to pursue in vain.

But what encouragement does experience afford for trusting that the future improvement of social arrangements will be such as to award rank only to merit? Man is a progressive being, and, in his social institutions, he ascends through the scale of his faculties, very much as an individual does in rising from infancy to manhood. In his social capacity he commences with institutions and pursuits related almost exclusively to the simplest of his animal instincts, and his most obvious intellectual perceptions.

In their early condition, men are described by history as savages, wandering amid wide-spreading forests, or over extensive savannas, clothed in the skins of animals, drawing their chief subsistence from the chase, and generally waging bloody wars with their neighbours. This is the outward manifestation of feeble intellect and Constructiveness, of

dormant Ideality, very weak moral sentiments, and active propensities. The skulls of savage nations present indications of a corresponding developement of brain.* In this condition there is little distinction of rank, except the superiority conferred on individuals by age, energy, or courage; and there is no division of labour, or diversity of employment, except that almost all painful and laborious duties are imposed on the women. All stand so near the bottom of the scale, that there is yet scarcely place for social distinctions.

In the next stage, we find men congregated into tribes, possessed of cattle, and assuming the aspect of a community, although still migratory in their habits. This state implies the possession of implements and utensils fabricated by means of ingenuity and industry; also a wider range of social attachment, and so much of moral principle as to prompt individuals to respect the property of at least each other in their own tribe. This is the pastoral condition, and it proclaims an advance in the developement of Intellect, Constructiveness, Adhesiveness, and the Moral Sentiments. In this stage, however, of the social progress, there is still a very imperfect manifestation of the moral and intellectual faculties. Neighbouring tribes are feared and hated; Acquisitiveness, unenlightened by intellect, and undirected by morality, desires to acquire wealth by plunder, rather than by industry; and the intellectual faculties have not yet comprehended the advantages of manufactures and of commerce. In this stage, men regard neighbouring tribes as their natural enemies—make war on them, spoil their substance, murder their males, and carry their females and children into captivity. They conceive that they crown themselves with glory by these achievements.

In such a state of society it is obvious that those individuals who possess, in the highest degree, the qualities most useful to the community, and most esteemed according to their standard of virtue, will be advanced to the highest rank, with all its attendant advantages and honours. Accordingly, in such a condition, great physical strength, a large brain and active temperament, with predominating Combativeness, Destructiveness, Self-Esteem, Love of Approbation, and Firmness, will carry an individual to the rank

* Strong evidence of this fact is presented in Dr. Morton's work on the character and crania of the native American Indians.

of a chief or leader of his countrymen, with a very limited portion of morality and reflecting intellect.

The next step in the progress of mankind is, the agricultural condition; and this implies a still higher evolution of intellect and moral sentiment. To sow in spring with a view of reaping in autumn, requires not only economy and prudence in preserving stores and stock, and the exercise of ingenuity in fabricating implements of husbandry, but a stretch of reflection embracing the whole intermediate period, and a subjugation of the impatient animal propensities to the intellectual powers. To ensure to him who sows, that *he* shall also reap, requires a general combination in defence of property, and a practical acknowledgment of the claims of justice, which indicate decided activity in the moral sentiments. Accordingly, we discover that the brains of nations in this state are more highly developed in the moral and intellectual regions, than those of tribes who are still savage.

In order to reach the highest rank in this stage of society, individuals must possess a greater endowment of reflecting intellect and moral sentiment, in proportion to their animal propensities, than was necessary to attain supremacy in the pastoral state.

When nations become commercial, and devote themselves to manufactures, their pursuits demand the activity of still higher endowments, together with extensive knowledge of natural objects, and their relations and qualities. In this condition, we perceive arts and sciences extensively cultivated; processes of manufacture of great complexity, and extending over a long period of time, successfully conducted; extensive transactions between individuals, living often in different hemispheres, and who probably never saw each other personally, carried on with regularity, integrity, and despatch; laws devised, regulating the rights and duties of individuals engaged in the most complicated transactions; and this machinery moving, on the whole, with a smoothness and regularity which are truly admirable. Such a scene is a high manifestation of moral and intellectual power; and man, contemplated in this condition, appears, for the first time, really like a rational being. Phrenology shows that the organs of the superior faculties develope themselves more fully in proportion to the advances of civilization, and that they are, *de facto*, largest in the most moral and enlightened nations.

This is the stage at which society has arrived in our day, in a great part of Europe, and in the United States of America. In other parts of the globe the inferior conditions still appear. But even in the most advanced nations, the triumph of the rational portion of man's nature is not complete. Our institutions, manners, desires, and aspirations, still partake, to a great extent, of the characteristics of the propensities. Wars from motives of aggrandizement or ambition, cruel laws, artificial restrictions calculated to maintain certain classes in possession of power and advantages to the exclusion of others, inordinate love of wealth, overweening ambition, and many other inferior desires, still flourish in vigour among us. In such a state of society it is impossible that the virtuous and intelligent alone should reach the highest pinnacles of fortune.

In Britain, that individual is fitted to be most successful in the career of wealth and its attendant advantages, who possesses vigorous health, industrious habits, great selfishness, a powerful intellect, and just so much of the moral feelings as to serve for the profitable direction of his animal powers. This combination of endowments would render self-aggrandizement and worldly-minded prudence the leading motives of his actions; would furnish intellect sufficient to give them effect, and morality adequate to restrain them from abuses, and from defeating their own gratifications. A person so constituted feels his faculties to be in harmony with his external condition: he has no lofty aspirations after either goodness or enjoyment which he cannot realize; he is satisfied to dedicate his undivided energies to the active business of life, and he is generally successful. He acquires wealth and distinction, stands high in the estimation of society, transmits comfort and abundance to his family, and dies in a good old age.

His mind, however, obviously does not belong to the highest class; yet, being in harmony with external circumstances, and little annoyed by the imperfections which are everywhere to be seen, it is one of that class which alone in the present social condition of Britain are reasonably happy and successful. This happens, because we are in that stage of our moral and intellectual progress which corresponds with the supremacy of the above-mentioned combination of faculties. In savage times, the rude, athletic warrior was the chief of his tribe; and he was also, probably, the most happy

because he possessed, in the greatest degree, the qualities necessary for success in his circumstances, and was deficient in all the feelings which could not, in them, obtain gratification. If he had possessed Benevolence, Ideality, Veneration, and Conscientiousness largely developed, he would have been unhappy, by the aspirations which they would have introduced into his mind, after higher objects and conditions than he could realize. The same rule holds good in our own case. Those individuals who have either too little of the selfish propensities or too much of the moral feelings, are neither successful nor happy in the present state of British society. The former cannot successfully maintain their ground in the great struggle for property which is going on around them; while the latter, although they may be able to keep their places in the competition for wealth, are constantly grieved by the misery and imperfection which they are compelled to witness, but cannot remove. They have the habitual consciousness, also, that they are labouring for the mere means of enjoyment, without ever reaching enjoyment itself; and that their lives are spent, as it were, in a feverish dream.

In these examples we observe, that society has been slowly but regularly advancing, so as more and more to elevate virtue and intelligence to public honour. The impediments to a just reward of individual merit do not, therefore, appear to be inherent in human nature, but contingent. There are, however, *artificial* impediments to the accomplishment of this end. Among these are hereditary titles of honour.

The feudal kings of Europe early acquired, or assumed, the power of conferring titles of honour and dignity on men of distinguished qualities, as a mark of approbation of their conduct, and as a reward for their services to the state. To the conferring of a title of honour upon the man who has done an important service to his country, reason and morality have nothing to object. Hence arose the institution of individual nobles. The favoured peer, however, naturally loved his offspring; and without considering any consequences beyond his own gratification, he induced the king to add a right of succession, in favour of his children, to the honours and privileges conferred on himself for his merits. We now know that if he himself had really been one of *Nature's* nobility, and if he had allied himself to a partner also possessing high qualities of brain and general

constitution, and if the two had lived habitually in accordance with the natural laws, he would have transmitted his natural nobility to his children; and they, having the stamp of Nature's honour on them, would have needed no patent from an earthly sovereign to maintain them in their father's rank. But this law of Nature being unknown, or the noble, perhaps, having attained to distinction by one or two distinguished qualities merely, which were much in demand in his own day, and being still deficient in many high endowments; or having, from passion, love of wealth, ambition, or some other unworthy motive, married an inferior partner, he is conscious that he cannot rely on his children inheriting natural superiority, and he therefore desires to preserve to them for ever, by artificial means, the rank, wealth, titles, and power, which he has acquired, and which Nature intended to be the rewards solely of superior endowments. The king grants to the children a right of succession to the titles, rank, and dignity, and parliament authorizes the father to place his estates under entail; by which means his heirs in succession, however profligate, imbecile, and unworthy of honour and distinction, continue to hold the highest rank in society, to exercise the privilege of hereditary legislation and to draw the revenues of immense estates, which they may squander, or devote to the most immoral of purposes In these instances legislators have directly contradicted Nature. All this, you will perceive, is following out the principle, that individual aggrandizement is the great object of each successive occupant of this world. The attempts, however, are not successful. They are productive, often, of misery, as every one knows who has observed the wretched condition in which many nobles and heirs of entail exist, whose profligacy and imbecility render them unfit for their artificial station.

In regard to society at large, the result of such a practice is, that a false standard of consideration is set up, and the respect and admiration of the people are frequently directed to ridiculous customs sanctioned by nobles, and to other unworthy objects. Besides, it presents false objects of ambition to the industrious class of all grades. In proportion as one of them attains wealth, instead of devoting it, and the talents by means of which it was acquired, to the improvement and elevation of the class from which he has sprung, he becomes ashamed of it, is fired with the ambition

of being created a noble, and is generally found wielding his whole energies, natural and acquired, in the ranks of the aristocracy against the people. If the distinctions instituted by Nature were left to operate by themselves, the effect would be, that the people at large would venerate in others, and desire themselves to become distinguished for, those qualities which are esteemed most highly according to their own moral and intellectual perceptions; the standard of consideration would be rectified and raised in proportion to their advance in knowledge and wisdom; and the removal of the obstruction to this advance, created by artificial and hereditary rank, would tend greatly to hasten the march of real improvement.

We are told that, in the United States of America, where no distinct class of nobility exists, aristocratic feelings, and all the pride of ancestry, are at least as rampant as in England, where the whole framework of society is constituted in reference to the ascendency of an ancient and powerful aristocracy; and I see no reason to doubt the statement. Difference of rank was instituted when the Creator bestowed different degrees and combinations of the mental organs on different men, and rendered them all improvable by education. It is natural, rational, and beneficial, therefore, to esteem and admire Nature's nobility; men greatly gifted with the highest qualities of our nature, who have duly cultivated and applied them. The Creator, also, in conferring on man the power to transmit his qualities and condition to his offspring, by means of his organization, has laid the foundation for our admiration of a long line of illustrious ancestors; because this direction of ambition may become a strong assistant to morality and reason, in inducing men to attend to the organic laws in their matrimonial alliances, and in their general conduct through life. According to the doctrines expounded in a previous lecture, if two persons, both in possession of high mental and bodily qualities, were to marry, to observe the natural laws during their lives, to rear a family, and to train them also to yield steady obedience to these laws in *their* conduct—the result would be, that the children would inherit the superior qualities of their parents, hold the same high rank in the estimation of society, be prosperous in life, and, in short, be specimens of human nature in its best form and condition. If these children observe the organic laws in their marriages, and obeyed

them in their lives, the tendency of nature would be still to transmit, in an increasing ratio, their excellent endowments to *their* children; and their is no ascertained limit to this series. It would be a just gratification to Self-Esteem, to belong to a family which could boast of a succession of noble men and women, descending through ten or twelve generations; and it would be an object of most legitimate ambition to be admitted to the honour and advantages of an alliance with it. This is the direction which the natural sentiments of family pride and admiration of ancestry will take, whenever the public intellect is enlightened concerning the laws of our constitution. In times past, we have seen these two sentiments acting as blindly and perniciously as Veneration does, when, in the absence of all true knowledge, it expends itself in preposterous superstitions. It, however, is always performing its proper function of venerating, and is ready to take a better direction when it receives illumination; and the same will hold good with the two feelings in question.

At a time when war and rapine were the distinguishing occupations of nobles, men were proud of their descent from a great warrior, perhaps a border chieftain, who was really only a thief and a robber on a great scale. At present, great self-congratulation is experienced by many individuals, because they are descended from a family which received a patent of nobility five hundred years ago, and has been maintained, since that time, by means of entails, in possession of immense wealth, although during that period their annals may have commemorated as many profligates, imbeciles, and idiots, as wise and virtuous men. Many commoners, also, who have inherited sound brains and respectable characters from their own obscure but excellent ancestors, are ashamed of their humble birth, and proud of an alliance with this illustrious but immoral and imbecile stock. But all this is the result of gross misdirection of Veneration and Love of Approbation, which increasing knowledge will assuredly correct. It indicates an infatuation of vanity, compared with which, wearing bones in the nose, and tatooing the skin, are harmless and respectable customs. If, in a country like Britain, a family has preserved property and high rank for several generations, without a patent of nobility, and without entails, its members must have possessed, through successive generations, sound practical understandings and

respectable morality ; and they are, therefore, really worthy of respect: and the fact that there are several (perhaps I might say many) such families, is a proof that artificial hereditary rank and entails are merely imperfect devices for accomplishing ends which can be attained effectually and beneficially by natural means alone.

It forms no argument against these views, that in America there is as jealous a distinction of ranks, and as strong an admiration of ancestry, as in Britain ; because these feelings are admitted to be natural, while it is certain that the mass of American society is not more enlightened in regard to their proper direction, than our own countrymen. The founders of the American republic, however, were great and enlightened men, and they conferred a boon of the highest value on their posterity, when, by prohibiting artificial hereditary ranks and titles, they withdrew the temptations to misdirected ambition which they naturally present.

We thus account for the fact, that the best of men do not always attain the highest stations and richest social rewards, first, by the circumstance of society being progressive, of its being yet only in an early stage of its career, and of its honouring in every stage those qualities which it prizes most highly at the time, although they may be low in the real scale of moral and intellectual excellence ; and secondly, by the impediments to a right adjustment of social honours presented by the institution of artificial and hereditary rank.

It is an interesting inquiry, whether society is destined to remain for ever in its present state, or in some one analogous to it, or to advance to a more perfect condition of intelligence, morality, and happiness ; and if the latter be a reasonable expectation, by what means its future improvement is to be accomplished. In considering these questions, I shall attempt to dissect and represent, with some minuteness, the principles which chiefly characterize our present social condition, and compare them with our faculties as revealed by the physiology of the brain. We shall, by this means, discover to what class of our faculties our existing institutions are most directly related. If they gratify our highest powers, we may regard ourselves as having approached the limits of that perfection permitted by our nature ; if they do not gratify these, we may hope still to advance.

There are two views of human nature, both of which are plausible and may be supported by many facts and arguments. The first is, that man is essentially a mere superior animal, destined to draw his chief enjoyments from a regulated activity of his animal nature. I do not mean his mere sensual appetites, but the whole class of faculties common to him and the inferior creatures, and which have individual interests for their object. Life, for example, may be regarded as given to us that we may enjoy the pleasures of sense, of rearing a family, of accumulating wealth, of acquiring distinction, and also of gratifying the intellect and imagination by literature, science, and the arts. According to this view, self-interest and individual aggrandizement would be the leading motives of all sensible men during life; and the moral faculties would be used chiefly to control and direct these selfish propensities in seeking their gratifications, so as to prevent them from unduly injuring their neighbours, and endangering their own prosperity. There would be no leading moral object in life; our enjoyments would not necessarily depend on the happiness and prosperity of our fellow-men; and the whole duty of the higher sentiments would be to watch and direct the lower.

The other view is, that man is essentially a rational and moral being, destined to draw his chief happiness from the pursuit of objects directly related to his moral and intellectual faculties, the propensities acting merely as the servants of the sentiments, to maintain and assist them while pursuing their high and beneficent objects. History represents man, in past ages, as having been ever in the former condition; either openly pursuing the gratification of the propensities, as the avowed and only object of life, or merely curbing them so far as to enable him to obtain higher satisfaction from them, but never directly pursuing moral ends as the chief object of his existence. This is also our present condition.

Even in civilized communities, each individual who is not born to hereditary fortune, enters into a vivid competition for wealth, power, and distinction, with all who move in his own sphere. Life is spent in one incessant struggle. We initiate our children into the system at the very dawn of their intelligence. We place them in classes at school, and offer them marks of merit and prizes to stimulate their ambition; and we estimate their attainments, not according to

the extent of useful knowledge which they have gained, but according to the place which they hold in relation to their fellows. It is proximity to being dux which is the grand distinction, and this implies the marked inferiority of all below the successful competitor.

On entering into the business of life, the same system is pursued. The manufacturer taxes his invention and his powers of application to the utmost, that he may outstrip his neighbours in producing better and cheaper commodities, and reaping a greater profit than they; the trader keeps his shop open earlier and later, and promises greater bargains than his rival, that he may attract customers. If a house is to be built, or a steam-engine fitted up, a specification, or a minute description of the object wanted, is drawn up; copies are handed to a number of tradesmen; they make offers to execute it at a certain sum: and the lowest offerer is preferred. The extent of difference in these offers is enormous. I was one of several public commissioners, who received offers for building a bridge; the highest of which was £21,036, and the lowest £13,749. Of six offers which I once received for building a house, the highest was £1975, and the lowest £1500. I have seen differences equally great for machinery and works of various kinds. I have made inquiries to ascertain whence these differences arose, and found them accounted for by the following causes:—Sometimes an offer is made by a tradesman who knows himself to be insolvent, who, therefore, has nothing to lose, but who is aware that this state of his affairs is not publicly known, so that his credit is still good. As long as he can go on in trade, he has the means of supporting and educating his family, and every year passed in accomplishing this object is so much gained. He can keep his trade in motion only by obtaining a regular succession of employment, and he secures this by underbidding every man who has a shilling of capital. Bankruptcy is the inevitable end of this career, and the men who have property ultimately sustain the loss arising from his unjust and pernicious system; but it serves his purpose for a time, and this is all that he regards. Another, and a more legitimate, cause of low bidding is the reverse of this. A trader has accumulated capital, and buys every article at the cheapest rate with ready money; he is frugal, and spends little in his family; he is active and sharp in his habits and temper, and exacts a great deal of labour

from his workmen in return for their wages. By these three circumstances combined, he is enabled to underbid every rival who is inferior to him in any one of them. I am informed that the difference in the cost of production to a master tradesman thus qualified, compared with one in different circumstances and of different dispositions, is equal to 15 or 20 per cent.

Viewed on the principle that the object of life is self aggrandizement, all this order of proceeding appears to be proper and profitable. But if you trace out the moral effects of it, they will be found extremely questionable.

The tendency of the system is to throw an accumulating burden of mere labour on the industrious classes. I am told that in some of the great machine manufactories in the west of Scotland, men labour for sixteen hours a day, stimulated by additions to their wages in proportion to the quantity of work which they produce. Masters who push trade on a great scale, exact the most energetic and long-continued exertion from all the artisans whom they employ. In such circumstances, man becomes a mere labouring animal. Excessive muscular exertion drains off nervous energy from the brain; and when labour ceases sleep ensues, unless the artificial stimulus of intoxicating liquors be applied, as it generally is in such instances, to rouse the dormant mental organs and confer a temporary enjoyment. To call a man, who passes his life in such a routine of occupation—eating, sleeping, labouring, and drinking—a Christian, an immortal being, preparing, by his exertions here, for an eternity hereafter, to be passed in the society of pure, intelligent, and blessed spirits—is a complete mockery. He is preparing for himself a premature grave, in which he shall be laid, exhausted with toil and benumbed in all the higher attributes of his nature, more like a jaded and ill-treated horse than a human being. Yet this system pervades every department of practical life in these islands. If a farm be advertised to be let, tenants compete with each other in bidding high rents, which, when carried to excess, can be paid only by their converting themselves and their servants into labouring animals, bestowing on the land the last effort of their strength and skill, and resting satisfied with very little enjoyment from it in return.

By the competition of individual interests, directed to the acquisition of property and the attainment of distinction, the

practical members of society are not only powerfully stimulated to exertion, but actually forced to submit to a most jading, laborious, and endless course of toil; in which neither time, opportunity, nor inclination, is left for the cultivation and enjoyment of the higher powers of the mind.

The whole order and institutions of society are framed in harmony with this principle. The law prohibits men from using force and fraud in order to acquire property, but sets no limits to their employment of all other means. Our education and mode of transacting mercantile business support the same system of selfishness. It is an approved maxim, that secrecy is the soul of trade; and each manufacturer and merchant pursues his speculations secretly, so that his rivals may know as little as possible of the kind and quantity of goods which he is manufacturing, of the sources whence he draws his materials, or the channels by which he disposes of his produce. The direct advantage of this system is, that it confers a superiority on the man of acute and extensive observation and profound sagacity. He contrives to penetrate many of the secrets which are attempted, though not very successfully, to be kept; and he directs his own trade and manufacture, not always according to the current in which his neighbours are floating, but rather according to the results which he foresees will take place from the course which they are following; and then the days of their adversity become those of his prosperity. The general effect of the system, however, is, that each trader stretches his capital, his credit, his skill, and his industry, to produce the utmost possible quantity of goods, under the idea, that the more he manufactures and sells, the more profit he will reap. But as all his neighbours are animated by the same spirit, *they* manufacture as much as possible also; and none of them know certainly how much the other traders in their own line are producing, or how much of the commodity in which they deal the public will really want, pay for, and consume, within any specific time. The consequence is, that a superfluity of goods is produced, the market is glutted, prices fall ruinously low—and all the manufacturers who have proceeded on credit, or who have limited capital, become bankrupt, and the effects of their rash speculations fall on their creditors. They are, however, excluded from trade for a season—the other manufacturers restrict their operations, the operatives are thrown idle, or

their wages are greatly reduced. The surplus commodities are at length consumed, demand revives, prices rise, and the rush toward production again takes place; and thus in all trades the pendulum oscillates, generation after generation, first toward prosperity, then to the equal balance, then toward adversity—back again to equality, and once more to prosperity.

The ordinary observer perceives in this system what he considers to be the natural, the healthy, and the inevitable play of the constituent elements of human nature. He discovers many advantages attending it, and some evils; but these he regards as inseparable from all that belongs to mortal man. The competition of individual interests, for example, he assures us, keeps the human energies alive, and stimulates all to the highest exercise of the bodily and mental powers; and the result is, that abundance of every article that man needs is poured into the general treasury of civilized life, even to superfluity. We are all interested, he continues, in cheap production; and although we apparently suffer by an excessive reduction in the prices of our own commodities, the evil is transitory, and the ultimate effect is unmixed good, for all our neighbours are running the same career of over-production with ourselves. While we are reducing our shoes to a ruinously low price, the stocking-maker is doing the same with his stockings, and the hat-maker with his hats; and after we all shall have exchanged article for article, we shall still obtain as many pairs of stockings, and as many hats, for any given quantity of shoes, as ever; so that the real effect of competition is to render the nation richer, and to enable it to maintain more inhabitants, or to provide for those it possesses more abundantly, without rendering any individuals poorer. The evils attending the rise and fall of fortune, the heartbreaking scenes of bankruptcy, and the occasional degradation of one family and elevation of another, they regard as storms in the moral, corresponding to those in the physical, world; which, although inconvenient to the individuals whom they over take, are, on the whole, beneficial, by stirring and purifying the atmosphere: and, regarding this life as a mere pilgrimage to a better, they view these incidental misfortunes as means of preparation for a higher sphere.

This representation has so much of actual truth in it, and such an infinite plausibility that it is almost adventurous in

me to question its soundness; yet I am forced to do so, or to give up my best and brightest hope of human nature and its destinies. In making these remarks, of course I blame no individuals; it is the system which I condemn. Individuals are as much controlled by the social system in which they live, as a raft is by the current in which it floats.

In all the systems which I have described, you will discover no motives, higher than those furnished by the propensities regulated by justice, animating the competing members of society in their evolutions. The grand object of each is to gain as much wealth, and, as its consequence, as much power and distinction to himself as possible: he pursues this object without any direct regard to his neighbour's interest or welfare; and no high moral or intellectual aim elevates, ennobles, or adorns his career. The first effect is, that he dedicates his whole powers and energies to the production of the mere *means of living*, and he forces all his fellows to devote their lives to precisely the same pursuits. If leisure for moral and intellectual cultivation be necessary to the enjoyment of a rational, a moral, and a religious being, this is excluded; for the labour is incessant during six days of the week, and the effect of this is to benumb his faculties on the seventh. If the soft play of the affections; if the enjoyment of the splendid loveliness of nature and the beauties of art; if the expansion of the intellect in the pursuits of science; if refinement of manners; if strengthening and improving the tone and forms of our physical frames; and if the adoration, with minds full of knowledge and souls melted with love, of our most bounteous Creator, constitute the real objects of human life in this world, the end for which we live; and if the fulfilment of this end be the only rational idea of preparation for a higher state of existence; then the system of action which we have contemplated, when viewed as the leading object of human life, appears stale, barren, and unprofitable. It no doubt supports the activity of our minds and bodies, and surrounds us with innumerable temporal advantages, not to be lightly valued; but its benefits end here. It affords an example of the independence of the several natural laws. The system is one in which the mind and body are devoted for ten or twelve hours a day, on six days in the week, to the production of those useful and ornamental articles which constitute wealth; and in this end we are eminently suc-

cessful. Verily we have our reward; for no nation in the world possesses so much wealth as Britain; none displays such vast property in the possession of individuals of every rank; none approaches her in the general splendour of living; and none in the multitude of inhabitants who live in idleness and luxury on the accumulated fruits of industry. But still, with all the dazzling advantages which Britain derives from her wealth, she is very far from being happy. Her large towns are overrun with pauperism and heathenism; and in many English counties, even the agricultural population has lately been engaged in burning corn-stacks and farm-offices, out of sheer misery and discontent. The overwrought manufacturers are too frequently degraded by intemperance, licentiousness, and other forms of vice. In the classes distinguished by industry and morality, the keen competition for employment and profit imposes excessive labour and anxiety on nearly all; while the higher classes are often the victims of idleness, vanity, anbition, vice, ennui, and a thousand attendant sufferings of body and mind. The pure, calm, dignified, and lasting felicity which our higher feelings pant for, and which reason whispers ought to be our aim, is seldom or never attained.

The present condition of society, therefore, does not seem to be the most perfect which human nature is capable of reaching; hitherto man has been progressive, and there is no reason to believe that he has yet reached the goal. In the next lecture will be stated some grounds for expecting brighter prospects in future.

LECTURE X.

THE CONSIDERATION OF THE PRESENT AND PROSPECTIVE CONDITION OF SOCIETY CONTINUED.

Additional examples of bad results of competition of individual interests—Disadvantages attending the division of labour—Difficulty of benefiting one individual without injuring others—Instance of charitable institutions—Question, Whether the destruction of human life or of corn is the greater public calamity—State of the Irish peasantry—Impediments to the abandonment of luxuries by the rich—The leading arrangements of society at present bear reference to self-interest—Christianity cannot become practical while this continues to be the case—Does human nature admit of such improvement, that the evils of individual competition may be obviated, and the moral sentiments rendered supreme?—Grounds for hope—Natural longing for a more perfect social condition—Schemes of Plato, Sir T. More, the Primitive Christians, the Harmonites, and Mr. Owen.

I PROCEED to point out some additional examples of the results of the competition of individual interests.

Apparently, the evils of the selfish system have the tendency to prolong and extend themselves indefinitely. We have seen, for example, that the institution of different employments is natural, springing from differences in native talent and inclination. This leads to the division of labour, by which every person has it in his power to confine his exertions to that species of art for which he has the greatest aptitude and liking; while, by interchanging commodities, all become richer. But, under the present system, this institution is attended with considerable disadvantages. Workmen are trained to perform the minutest portions of labour on a particular article, and to do nothing else: one man can point a pin, and do no more; another can make the pin's head, but finish no other part of it; one man can make the eye of a needle, but can neither fashion the body nor point it. In preparing steam-engines, there are now even different branches of trade, and different workshops for the different parts. One person makes boilers, another casts the frame-work and heavy iron beams, a third makes cylinders, a fourth pistons, and so on; and the person who furnishes steam-engines to the public, merely goes to these different workshops, buys the different parts of the skeleton,

and his own trade consists in fitting them together, and selling the engine entire.

These arrangements produce commodities better and cheaper, than if one man made the whole needle or pin, or one manufactory fabricated the whole steam-engine ; but there is an attendant disadvantage, when we view the system in its moral effects. It rears an immense number of industrious men, who are utterly ignorant, except of the minute details of their own small department of art, and who are altogether useless and helpless, except when combined under one employer. If not counteracted in its effects by an extensive education, it renders the workmen incapable of properly discharging their duties as parents, or members of society, by leaving them ignorant of everything except their narrow department of trade. It leaves them also exposed, by ignorance, to become the dupes of political agitators and fanatics, and renders them dependent on the capitalist Trained from infancy to a minute operation, their mental culture neglected, and destitute of capital, they are incapable of exercising sound judgment on any subject, and of combining their labour and their skill for the promotion of their own advantage. They are, therefore, the mere implements of trade in the hands of men of more enlarged minds and more extensive property ; and as these men also compete keenly, talent against talent, and capital against capital, each of them is compelled to throw back a part of the burden on his artisans, demanding more labour, and giving less wages, to enable him to maintain his own position.*

Nor does the capitalist escape the evils of the system. In consequence of manufacturer competing with manufacturer, and merchant with merchant, who will execute most work, and sell his goods cheapest, profits fall extremely low, and the rate of interest, which is just the proportion of profit corresponding to the capital employment in trade, becomes depressed. The result is, that the artisan's wages are lowered to the verge of a decent subsistence, earned by his utmost

* I confine the observations in the text to the case of mechanics who are uneducated. If they receive a good education, the more monotonous their employment is, they have the more spare energy for thought. Weavers who have once entered on reading, generally become intelligent, for their labour absorbs a small portion of mind ; but if they have not been educated at all, they become dull and stupid, or unsettled and vicious.

exertions; the manufacturer and merchant are exposed to incessant toil and risk, and are moderately recompensed; and the capitalist, who desires to retire from active business, and live on the produce of his previous industry, in the form of interest, participates in their depression, and starves on the smallest pittance of annual return. Thus, selfish competition presents the anomaly of universal abundance co-existing with individual want, and a ceaseless struggle to obtain objects fitted chiefly to gratify our inferior powers.

While the competition of individual interests continues to be the rule in society, the field even of benevolence itself is greatly limited. It becomes extremely difficult to do good to one individual, or class of individuals, without doing an equal injury to others. Nothing, for example, can at first sight appear more meritorious and beneficial, than the institution of such charitable endowments as that of Heriot's Hospital, or the hospitals founded by the two Watsons, of this city; in which children of decayed or deceased parents, belonging to the industrious classes, are educated, provided for, and set out in life. Yet objections to them have been stated on very plausible grounds. According to the principles which I have endeavoured to expound in the preceding lectures, children do not, in general, become destitute, except in consequence of great infringement of one or more of the natural laws by their parents. If the parents died prematurely, they must, in most cases, (for accidents will happen, even with the utmost care,) have inherited feeble constitutions, or disobeyed, in their own conduct, the organic laws; and the destitution of their children is the natural punishment of these offences. If the father have been in trade, have failed, and fallen into poverty, he must have been deficient in some of the qualities of habits necessary for success, and his destitution is the natural consequences of these deficiencies. Now, amid the competition of individual interests, there is always a considerable number of meritorious persons, who, with great difficulty, are able to maintain themselves and their families in the station in which they were born, and who succeed in doing so, and in educating their children, only by submitting to incessant toil and great sacrifices of their own enjoyments. I have heard such persons make remarks like the following: "Do you see that young man? he was educated in Heriot's Hospital, and, by the influence of the managers of that institution, was

received as an apprentice into a thriving mercantile establishment, into which I had in vain endeavoured to get one of my sons introduced. He is now head-clerk. Well! benevolence is not always justice: that boy's father was sporting his horse and gig, and living like a gentleman, while I was toiling and saving; he fell from his gig and broke his neck, when he had drunk too much wine. At his death, his affairs were found to be in bankruptcy; but he had good friends; his children were taken into the hospitals, and here you see the end of it; his boy comes out of the hospital better educated than my sons, and, supported by the influence of the managers, he prevents mine from getting into a good situation, by stepping into it himself: this, I say, may be benevolence, but it is not justice." This is not an imaginary dialogue; I have heard the argument stated again and again, and I could never see a satisfactory answer to it. It would be cruelty to abandon the children, even of the victims of such misconduct as is here described, to want, crime, and misery; yet surely there must be some defect in the leading principle of our social institutions, when a benevolent provision for them really has the effect of obstructing the path and hindering the prosperity of the children of more meritorious individuals.

I have heard this line of argument pushed still farther. An acute reasoner often maintained in my presence, that if one hundred unmarried men and one thousand quarters of wheat were both in one ship, the loss of the men would be no public evil, while the loss of the wheat would be a real one. He maintained his position by arguing that in this country the competition for employment is so great, that the removal of one hundred individuals from any branch of labour would only benefit those who were left, by rendering the competition less arduous and their remuneration greater; whereas the loss of one thousand quarters of wheat would necessarily lead to diminution of the diet of a certain number of the poorest of the people. All the wheat which we possess, he said, is annually consumed; if it be abundant, it is cheap, and the poor get a larger share: if it be scarce, it is dear, and the deficiency falls upon the poor exclusively: the loss even of one thousand quarters, therefore, would have stinted the poor, it may be only to a fractional, but still to a real extent, sufficient to establish the principle contended for; so that, continued my friend, British society is actually in

that condition in which the loss of food is a greater public calamity than the loss of men.

This argument appears to me to be sound in principle, although wire-drawn. The answer to it is, that our benevolent feelings, which, although obstructed under the selfish system, are not extinguished, would receive so much pain from seeing one hundred human beings deprived of the pleasures of existence, that even the poor would cheerfully sacrifice many meals, to contribute to their preservation. If the events are contemplated apart from the pain or gratification which our benevolent feelings experience from them, and if the amount of good and evil, not to the one hundred sufferers, but to the community at large, be solely regarded, the loss of men, in a country like this, does appear a smaller misfortune than the loss of food. Ireland affords a striking illustration. The purest philanthropist will confess, that a destroying angel, who in one night should slay a million of human beings, men, women, and children, in that country, would occasion infinitely less suffering, than would arise from any considerable deficiency in their potato crop.* I see it mentioned in the newspapers, that at this moment (June 1835) the peasantry in the west of Ireland are suffering all the horrors of famine through failure of their potato crop. Although corn is abundant, and is daily exported to England, they are too poor to purchase it. The Irish peasantry, habitually on the brink of starvation, and exposed to the greatest destitution, stand at one end of the agricultural scale, and the great landed proprietors of England, with revenues of £100,000 per annum, and rolling in every kind of luxury,

* There is more of benevolent arrangement in the tendency of barbarous tribes to wage furious wars with each other, than at first sight appears. The Irish peasantry, in general, were till lately barbarous in their minds and habits, and, but for the presence of a large army of civilized men, who preserved the peace, they would have fought with, and exterminated, each other. It is questionable whether the miseries that would have attended such a course of action would have exceeded those which are actually endured from starvation. The bane of Ireland is, that her population has increased far more rapidly than her capital, morality, and knowledge. Where a nation is left to follow its own course this does not occur. Dissension keeps down the numbers, until intelligence, capital, and industry take the lead. England prevented the Irish from fighting, but she did little to improve them.

occupy the other. The hand-loom weavers of Britain, earning five shillings a week by the labour of six days, of fourteen hours each, are at the base of the manufacturing system, while the Peels and Arkwrights, possessing millions of pounds, appear at the summit. There is something *not* agreeable to our moral sentiments, and *not* conformable to the brother-loving and wealth-despising precepts of Christianity, in a system of which these are the natural effects, and according to which, even benevolence cannot be manifested toward one human being without indirectly doing injury to another.

Another example of the solidity and consistency of the prevailing system may be noticed. Many persons erroneously imagine that there is no social obstacle to the rich leaving off their vanities and luxuries, and dedicating their surplus revenues to moral and religious purposes, and that great good would result from their doing so; but the consequences, even of this virtuous measure, would, while the present system endures, prove highly detrimental to thousands of meritorous persons. Multitudes of laborious and virtuous families subsist by furnishing materials for the luxuries of the rich, and a change in the direction of their expenditure would involve these families in ruin. Fluctuations in fashion, as taste varies, often occasion great temporary suffering to this class of the community, but a total abandonment of all luxurious indulgences, on the part of the wealthy, would involve them in irretrievable misfortune.

We perceive, therefore, that the general arrangements of our existing social system evidently bear reference to the supremacy of our lower faculties. The pursuit of wealth at present generally ends in the gratification of Self-Esteem and Love of Approbation. The attainment of power and distinction in politics, in rank, or in fashion, is the Alpha and Omega of the machinery of our social system; yet it does not produce general happiness. Every moral, and I may almost say religious, advantage is incidental to, and not a part of, the system itself. There are laws to compel us to pay taxes, for the maintenance of officers of justice, whose duty it is to punish crime after it is committed; but there are no general laws to prevent crime by means of penitentiaries and of abundant and instructive schools.* There

* The United States of America are happily free from this reproach. In their provisions for national education, and in the management of their prisons, they are greatly in advance of Britain

are laws which tax us to support armies and navies for the purpose of fighting our neighbours; but no laws to compel us to pay taxes for the purpose of providing, in our great cities, the humblest luxuries, nay, almost necessaries for the poor, such as baths to preserve their health, reading-rooms or places of instruction and amusement, in which their rational faculties may be cultivated and their comfort promoted after their days of toil are finished. There are taxes to maintain the utterly destitute and miserably poor after they have fallen into that condition, but none to provide means for arresting them in their downward progress toward it. In short, the system, as one of self-interest, is wonderfully perfect. From the beginning to the end of it, prizes are held out to the laborious, intelligent, and moral, who choose to dedicate their lives out and out, honestly and fairly, to the general scramble for property and distinction; but equal facilities are presented to all who are incapable of maintaining this struggle, to fall down, and sink to the lowest depths of wretchedness and degradation. When they have reached the bottom, and are helpless and completely undone, the hand of a meagre charity is stretched forth to support life, till disappointment, penury, and old age, consign them to the grave. The taxes occasioned by our national and immoral wars render us unable to support imposts for moral objects.

Now, it is worthy of remark, that if the system of individual aggrandizement be the necessary, unalterable, and highest result of the human faculties as constituted by nature, it altogether excludes the possibility of Christianity ever becoming practical in this world. The leading and distinguishing moral precepts of Christianity are those which command us to do to others as we would wish that they should do unto us; to love our neighbours as ourselves; and not to permit our minds to become engrossed in the pursuit of wealth, or infatuated by the vanity and ambition of the world. But if a constant struggle for supremacy in wealth and station be unavoidable among men, it is clearly impossible for us to obey such precepts, which must therefore be as little adapted to our nature and condition, as the command to love and protect poultry, but never to eat them, would be to that of the fox. Instead, therefore, of divines teaching Christian morality, it would (if the system of competition of individual interests be the highest that our nature

admits of) be wiser in them to follow the example of the political economists, and to suit their precepts to the human constitution. Political economists in general regard the existing forms and condition of society as the result of our natural faculties, and as destined to be the lot of man to the end of time. In perfect consistency with this view, they propose to provide for the increasing welfare of the race by exalting the aim of the selfish principles, and directing them more beneficially by extended knowledge. They would educate the operative classes, and thereby confer on them mental energy, fortitude, and a rational ambition—after which it might be expected that they would not consent to labour, like the lower animals, merely for the humblest subsistence, but would consider decent comforts, if not simple luxuries, essential to their enjoyment, and demand wages adequate to the command of these as the recompense of their industry and skill. As long, however, as the system of individual aggrandizement is maintained, it will be the interest of the class immediately above the operatives, and who subsist on the profits of their labour, to prevent the growth of improved notions and principles of action; for the labourer is in the most profitable condition for his master's service when he possesses just intelligence and morality sufficient to enable him to discharge his duties faithfully, but so little as to feel neither the ambition nor the power of effectually improving his circumstances. And, accordingly, the maintenance of the labouring classes in this state of contentment and toil, is the beau ideal of practical philosophy with many excellent individuals in the higher and middle ranks of life.

Under this system, the aim of the teacher of morality and religion is to render the operative classes quiet and industrious labourers, toiling patiently through this life in poverty and obscurity, and looking forward to heaven as their only place of rest and enjoyment. Under the selfish system, religion and morality do not aspire to the establishment *on earth* of what I regard as the truly Christian character—that in which each individual will find his neighbour's happiness an essential element in his own; in which he shall truly love his neighbour as himself: and in which labour and the attainment of wealth shall not be the ends or objects of his existence, but simply the means of enabling him to live in comfort and in leisure, to exercise habitually his moral and

intellectual faculties, and to draw from them his chief delights. According to the present system, the attainment of this condition is deferred till we arrive in heaven. Now, if human nature be capable of realizing this state on earth, it is a pity to postpone it till after death; more especially, as there is every warrant, both in reason and scripture, for believing that every step which we make toward it in this life, will prove so much of a real advance toward it hereafter.

It is now time, however, to enter on the consideration of the main subject of the present lecture—the question, whether the human faculties, and their relations to external objects, admit of man ascending in the scale of morality, intelligence, and religion, to that state in which the evils of individual competition shall be obviated, and full scope be afforded for the actual supremacy of the highest powers.

On contemplating man's endowments in a general point of view, nothing would appear more simple and easy than practically to realize the general and permanent supremacy of the moral powers. We have seen that aptitude for labour is conferred on him by the Creator, so that if he were enlightened in regard to his own constitution and the sources of his own welfare, he would desire to labour for his own gratification, even independently of the reward, in the form of food, raiment, and physical abundance, which it is the means of procuring. Again, the earth, and the external world generally, are created with an admirable adaptation to his bodily and mental powers, so as to recompense him, by immense rewards, for a very moderate extent of exertion in applying them to his own advantage. Farther, man has been endowed with inventive and co-operative faculties, which confer on him a vast ingenuity, and render him cappable of impressing, not only the inferior animals, but fire, air, and water, into his service as labourers. And finally, he has received organs of Benevolence, prompting him to love all sentient beings, and to delight in their happiness, organs of Conscientiousness, desiring to see universal justice reign; organs of Ideality, which aspire after universal perfection and loveliness; with organs of Veneration, Wonder, and Hope, leading him to desire communion with God, and to rejoice in the contemplation of all that is pure, exalted, and beneficent.

With such a constitution, and placed in such circumstances, the wonder is that he has wandered in error and

misery so long. The cause is rendered clear by phrenology. In addition to these high moral and intellectual endowments, man possesses animal propensities, which are blind, selfish instincts. They are necessary for his sustenance, and their organs are the largest, most active, and earliest developed in his brain. They are extremely prone to produce evil until they are directed and enlightened by his moral and intellectual powers.

Man's ignorance of himself and of external nature, and his consequent inexperience of the attainments which he is capable of reaching, appear to have been the chief causes of his past errors; and the following among other reasons authorize us to hope for better things hereafter. His propensities, although strong, are felt by all to be the inferior powers in dignity and authority. There is, therefore, in man a natural longing for the realization of a more perfect social condition than any hitherto exhibited, in which justice and benevolence shall prevail. Plato's "Republic" is the most ancient recorded example of this desire of a perfect social state. Josephus describes the sect of the Essenes, among the Jews, as aiming at the same object. "The Essenes," says he, "despise riches, and are so liberal as to excite our admiration. Nor can any be found among them who is more wealthy than the rest; for it is a law with them, that those who join their order should distribute their possessions among the members, the property of each being added to that of all the rest, as being all brethren."—"They reject pleasure as evil; and they look upon temperance and a conquest over the passions as the greatest virtue."—(*War*, ii. ch. 7.) In the days of the apostles, an attempt was made by the Christians to realize these principles, by possessing all things in common. The same end is aimed at also by the Society of Friends, by the Harmonites of North America, and by the followers of Mr. Owen in Britain: Plato's Republic, and Sir Thomas More's Utopia, which was a similar scheme, were purely speculative, and have never been tried. The word "Utopian," indeed, is usually applied to all schemes too perfect and beautiful to admit of being reduced to practice. The Essenes laboured in agriculture and in various trades, and seem to have maintained their principles in active operation for a considerable period of time. We are not told whether the primitive Christians formed themselves into an association for the

purpose of producing wealth: so far as we are aware, they merely contributed their actual possessions, and then gave themselves up to religious duties; and as their stores were soon consumed, the practice ceased. The Harmonites are stated to have been a colony of Moravians united under one or more religious leaders: in their own country they had from infancy been bred to certain religious opinions, in which they were generally agreed; they had all been trained to industry in its various branches, and disciplined in practical morality; and thus prepared, they emigrated with some little property, purchased a considerable territory in Indiana, which was then one of the back settlements of the United States and proceeded to realize the scheme of common property and Christian brotherhood. They sustained many privations at first; but in time they built a commodious and handsome village, including a church, a school-house, a library, and baths. They cultivated the ground, and carried on various manufactures; but all laboured for the common good, and were fed and clothed by the community. They implicitly obeyed their chief pastor or leader, Mr. Rapp, who exercised a mild though despotic authority over them. They lived as families in distinct dwellings, and enjoyed all the pleasures of the domestic affections; but their minds were not agitated by ambition, nor racked by anxiety about providing for their children. The latter were early trained to industry, co-operation, and religion; and if their parents died, they were at once adopted by the community. The Harmonites were not distracted with cares about their old age or sickness, because they were then abundantly provided for. There was division of labour, but no exhausting fatigue: a fertile soil, favourable climate, and moral habits, rendered moderate exertion amply sufficient to provide for every want. There were natural distinctions of rank; for all were subordinate to Mr. Rapp, and the individuals most highly gifted filled the most important offices, such as those of religious instructors, teachers, and directors of works, and were venerated and beloved by the other members accordingly; but no artificial distinctions found a place. This community existed many years, enjoyed great prosperity, and became rich. Mr. Owen at last appeared, bought their property, and proceeded to try his own scheme. They then retired again into the wilderness, and recommenced their career. At that time they were about two thousand in number.

Here, then, the vice and misery which prevail in common society were in a great measure excluded; and though the external circumstances of the Harmonites were peculiarly favourable, their history shows what human nature is capable of attaining.

The leading principle of Mr. Owen is, that human character is determined mainly by external circumstances; and that natural dispositions, and even established habits, may be easily overcome. Accordingly, he invited all persons who approved of his scheme, to settle at New Harmony; but as those who acted on his invitation had been trained in the selfish system, and were, in many instances, mere ignorant adventurers, they naturally failed to act in accordance with the dictates of the moral sentiments and intellect, and Mr. Owen's benevolent scheme proved completely unsuccessful. The establishment at Orbiston, in Lanarkshire, set on foot ten years ago by the admirers of that gentleman, fell closely under my personal observations; and there the same disregard of the principles of human nature, and the results of experience, was exhibited. About three hundred persons, very imperfectly educated, and united by no great moral or religious principle, excepting the vague idea of co-operation, were congregated in a large building; they were furnished with the use of two hundred and seventy acres of arable land, and commenced the co-operative mode of life. But their labour being guided by no efficient direction or superintendence, and there being no habitual supremacy of the moral and intellectual powers among them, animating each with a love of the public good, but the reverse—the result was melancholy and speedy. Without in the least benefiting the operatives, the scheme ruined its philanthropic projectors, most of whom are now either in premature graves, or emigrants to distant lands, while every stone which they reared has been razed to the foundation.

These details are not foreign to the subject in hand. They prove, that while ignorance prevails, and the selfish faculties bear the ascendency, the system of individual interests is the only one for which men are fitted. At the same time, the attempts above narrated show that there is in the human mind an ardent aspiration after a higher, purer, and happier state of society than has ever yet been realized. In the words of Mr. Forsyth, there is in some men "a passion for reforming the world;" and the success of Mr. Rapp, at

Harmony, shows that whenever the animal propensities can be controlled by the strength of moral and religious principle, co-operation for the general welfare and a vast increase of happiness become possible. As, however, individuals are liable to be led away on this subject by sanguine dispositions and poetical fancies, our first object should be to judge calmly whether past experience does not outweigh, in the scale of reason, these bright desires and this almost solitary example, and teach us to regard them as dangerous phantoms, rather than indications of capabilities lying dormant within us. Certainly the argument founded on experience is a very strong one; yet it does not seem to me to be conclusive—and as the question of the capabilities of human nature is one of great and preliminary importance, a statement will be given in the next lecture of the reasons which render it probable that man is still susceptible of improvement to an unascertained extent. Our opinions on this point must necessarily exercise a great influence on our ideas of social duty; and the subject is, therefore, deserving of the fullest consideration.

LECTURE XI.

THE CONSIDERATION OF THE PROSPECTIVE CONDITION OF SOCIETY CONTINUED.—DUTY OF MAINTAINING THE POOR.

Reasons for expecting future human improvement—The brain improves with time, exercise, and the melioration of institutions—Existing superior brains and minds prove the capability of the race—The best men are the firmest believers in man's capability of improvement—Human happiness will increase with the progress of knowledge—Ignorance still prevalent—Many of our sufferings traceable to causes removable by knowledge and the practice of morality—This exemplified in poverty, and the vicissitude and uncertainty of conditions—Means by which human improvement may be effected—The interest of individuals closely linked with general improvement and prosperity—Examples in proof of this—Extensive view of the Christian precept, that we ought to love our neighbour as ourselves—Duty of attending to public affairs—Prevention of war—Abolition of slave-trade—Imperfection of political economy in its tendency to promote general happiness—Proposal to set apart stated portions of time for the instruction of the people in their social duties, and for the discharge of them—Anticipated good effects of such a measure—Duty of endeavouring to equalise happiness—Duty of maintaining the poor—Opposite views of political economists on this subject considered—Causes of pauperism; and means of removing them—These causes not struck at by the present system of management of the poor; but, on the contrary, strengthened.

I PROCEED to state some of the reasons which render it probable that the capacity of man for improvement is greater than experience may, at first sight, lead us to suppose.

In the first place, man is obviously progressive in the evolution of his mental powers. The developement of his brain appears to improve with time, exercise, and the melioration of his institutions. There is strong evidence that, in civilized nations in general, the moral and intellectual organs are larger, in proportion to the organs of the animal propensities, than they are in savages. The skulls of civilized and savage races, in the collection of the Phrenological Society, afford proofs of this fact.* It is equally certain,

* Since the text was written, I have visited the United States of America, and seen large numbers of skulls of native Indians, and also living individuals of these races, and have found the statement in the text supported by this evidence

that individuals are fitted to institute, maintain, and enjoy, a highly moral and intellectual social condition, in proportion to the predominance of the organs of the superior sentiments and the intellectual powers in their brains. Many persons enjoying this combination may be found in all Christian countries. They are genuine philanthropists—good, pious, wise, long-suffering, and charitable. They see and lament the ignorance, selfishness, blindness, and degradation of the unenlightened masses of mankind, and would rejoice in institutions that would introduce peace and good will to men on earth, and the love of God into every mind. If the brains of a great majority of mankind could be brought up to that standard, and illuminated by knowledge, Christianity might be realized as a practical doctrine, which it has never yet generally been. The love of everything good, holy, exalted, and refined, would be strong and general; and it seems reasonable to believe that the human intellect might succeed in discovering means of gratifying the aspirations of the moral faculties, in social habits, pursuits, and institutions. If, then, men possessing such brains exist, human nature must be capable of reaching this condition. As we are all of the same race, and regulated by the same laws, the excellent qualities exhibited by a few cannot be denied to be within the ultimate attainment of the majority.

Farther—As the firmest believers in man's capability of improvement are those persons who themselves possess high moral developement of brain, they are inspired, in this faith, not by a demon, but by heaven; for the moral sentiments are the God-like elements of our nature; and the very fact that these ennobling expectations are entertained by men possessing the best moral affections, affords an indication that Providence intends that they should be realized. In proportion, then, as a large developement of the organs of the higher faculties becomes general, the conviction of the possibility of improvement, and the desire for it, will increase.*

See the most authentic descriptions of these skulls in Dr. Morton's *Crania Americana;* an admirable work, containing seventy-eight drawings, of the size of life, of the skulls of native American Indians, with letter-press descriptions of the mental qualities of the tribes.

* The failure of the disciples of Mr. Owen, at Orbiston, in Lanarkshire, may be supposed to be a refutation of this remark; but they followed the aspirations of their moral sentiments,

Again—Man, as already mentioned, is clearly and undeniably progressive in knowledge; and this single fact authorizes us to rely with confidence on his future improvement. In proportion as he shall evolve a correct knowledge of the elements of external nature and of his own constitution out of the dark chaos in which they have hitherto existed, will his means of acting wisely and advantageously for his own happiness be augmented. If we trace in history the periods of the direst sufferings of human nature, we shall find them uniformly to have been those of the most benighted ignorance, and phrenology confirms the records of history on this subject; it shows us that the animal organs are the largest and most active, and that, in uncultivated men, they act blindly and with terrible energy, producing misery in every form. If the progress of knowledge be destined to increase virtue and enjoyment, our brightest days must yet be in reserve, because knowledge is only at this moment dawning even on civilized nations. It has been well observed, that we who now live are only emerging out of the ignorance and barbarism of the dark ages; we have not yet fully escaped. This is proved by the mass of uneducated persons everywhere existing;* by the imperfect nature of the instruction usually given; without consulting the dictates of enlightened intellect. They believed that the good which they strongly desired could be at once realized, by measures suggested by the mere force of the desire, without fulfilling the preliminary natural conditions to success. They took a number of selfish and ignorant people, and expected that, by a few speeches and by living in a community, they would alter their mental condition, and render them in the highest degree disinterested and moral. This was irrational, and failure was the natural result; but this does not show that wiser means may not lead to happier ends.

* State of Education in England.

The register of marriages in England throws an incidental light upon the state of education. The parties married sign their names, if they can write, and affix their marks, if they cannot. Judging by this criterion, it appears, that among 100 men who marry in England, the number unable to write is 33. Among 100 women, 49; and the mean of both, 41. As it is estimated that the number who marry annually is only about 3 per cent. of the persons marriageable, the data are too limited to afford sure results; but in the absence of better evidence, they are well worthy of attention. With this qualification, we give the proportions for the different sections of the country.

and by the vast multitude of prejudices which still prevail, even in the best informed classes of society. It is, in truth, an error to believe that even modern Europe is enlightened, in any reasonable meaning of the term. A few of her ablest men are comparatively well instructed, when tried by the standards of other ages; but the wisest of them have the most forcible conviction that the field of their knowledge of nature, physical and mental, when compared with the vast regions of territory still unexplored, is as a span to the whole terrestrial globe: and as to the multitude of mankind, their ignorance is like the loftiest mountain in extent, and their knowledge as the most diminutive mole-hill. The great body of the people are uninstructed in everything deserving the name of practical science. Neither our scheme of life, the internal arrangement of our houses, the plans of our towns, our modes of industry, our habits of living, our amusements and other ways of employing the small portion of leisure left to us by the calls of business, nor even the details and forms of our religious worship, have been instituted and adopted from any sound and systematic view of our own nature, or its wants and capabilities. The art of printing, and the great era of discovery in the arts

SCHOLARSHIP OF ENGLAND.

Of one hundred of each sex who marry, the number who sign with *marks* is—

	Males.	Females.	Mean.
South-eastern counties, . .	32	40	36
South midland do. . .	43	53	48
Eastern do.	45	52	48
South-western do. . .	31	47	39
Western do. . .	40	54	47
North midland do. . .	32	50	41
North-western do. . .	39	63	51
Yorkshire, ...	34	49	41
Northern do. . .	21	42	31
Monmouth and Wales, . .	48	70	59
The Metropolis, . .	12	24	18

The fact that 41 adults out of every 100 cannot write their names, is disgraceful to England, and to the church in particular, whose especial duty it was, either to make provision for the education of the people, or to see that it was made by the state. The church, in its collective capacity, has in fact been always hostile to the diffusion of knowledge.—*Review of the Registrar-General's Second Annual Report of Births, Deaths and Marriages, for England, in Scotsman of 22d August*, 1840.

and sciences, are still comparatively recent; and the *practical application* of them to increase the intelligence and happiness of the great mass of the people, with a view to realize Christian morality and its attendant enjoyments in this life, has yet been limited and imperfect.

The external world is clearly constituted with the intention that man should exert his highest faculties, illuminated by knowledge, and that his happiness should be thereby increased. Civilized man, with his numerous inventions, and his admirable command over physical and animal nature, appears almost like a God, compared with the savages of New Holland, and other helpless tribes wearing the human form, without manifesting the human mind. When we survey the great ingenuity and value of our mechanical inventions, and consider to what extent they have increased our powers of producing the necessaries and elegancies of life, it is impossible to doubt that the Creator, when he bestowed on us faculties which he foresaw would one day render us masters, to so great an extent, of his physical creation, intended that they should ultimately increase the happiness of *all* his children. He never could have designed them to be employed merely in carrying on a vast game of hazard, in which a thousand should be losers, and only one the fortunate gainer of the prize; and yet, at this moment, when we regard, on the one hand, the condition of our operative manufacturing population, too generally pressed to the earth with poverty and toil, and on the other, a few men of superior talent, who, by combining the exertions, and accumulating the profits of the labour of these industrious classes, have become almost princes in fortune, we cannot deny that this is, to some extent, the use to which discoveries in art and science have been devoted. This, I say, cannot be the ultimate design of Providence; and therefore I conclude, again, that we must be as yet only evolving our destinies; that we are now in a state of transition, and advancing to higher morality and more universal enjoyment.

Another reason for my conviction of human capability of improvement is, that, imperfect as our philosophical acquaintance with ourselves and with external nature at present is, we are able to trace many of our sufferings to causes which are removable by knowledge and by the practice of moral duty. The evils of sickness and premature death may, in general, and with the exception of accidents, be traced to

feeble constitutions inherited from parents, or to direct disobedience of the organic laws in our own persons. If knowledge of the causes of health and disease were generally diffused, and if the sanctions of religion and the opinion of society were directed toward enforcing attention to them, it is reasonable to believe that in every succeeding generation, fewer and fewer parents would produce children with feeble constitutions, and fewer and fewer adults would cause their own deaths prematurely, by ignorant infringement of these laws.

Poverty, and the consequent want of the necessaries and enjoyments of life, is another vast source of human suffering. But who that traces the immeasurable fruitfulness of the earth, and the unbounded productiveness of human labour and skill, can doubt that if a higher-minded and more considerate population could be reared, who should act according to the dictates of an enlightened understanding and a sound practical morality, and establish wiser social arrangements—this source of suffering would also be dried up, or very greatly diminished!

Vicissitude and uncertainty of condition also afflict thousands who are placed above the reach of actual want of food and raiment; yet how much of these evils may be traced to the dark mysteriousness in which many involve their trade; in consequence of which, each manufacturer is often in secret ruining both himself and his neighbour by over-production, without any of them being aware that he is the source of his own and his neighbour's calamities; and how much evil may be ascribed to the grasping and gambling spirit, which prompts so many persons to engage in wild speculations, which a sound education in political economy might prevent! Ills like these are certainly to some extent avoidable, by knowledge of the principles which govern commerce, and by the practice of prudence and morality by individuals.

The last reason which I assigned for believing in the capacity of man for improvement is, that he can scarcely move one step of advance in knowledge and morality, without a palpable melioration of his condition. If you will trace our countrymen through their various grades, of savages, barbarians, chivalrous professors of love, war, and plunder, and of civilized citizens of the world, you will find the aggregate enjoyment of the people increased with every

extension of knowledge and virtue. This is so obvious and certain, that I forbear to waste your time by proving it in detail: we cannot reasonably suppose that the progress is destined to stop here.

For all the reasons now assigned, I hope you will go along with me in the conviction, that improvement, not boundless, but so extensive that its limits are unknown, is within the reach of man. I shall now endeavour to point out the means by which this improvement may be carried into effect.

The first step toward realizing this object, is to produce a general conviction of its possibility, which I have endeavoured in this and the preceding lectures to accomplish. The next is to communicate to each individual a clear perception of the advantages which would accrue to *himself* from such improvement, and a firm conviction of the impossibility of individuals in general ever attaining to the full enjoyment and satisfaction of their highest and best faculties, except by means of social institutions founded on the basis of the moral and intellectual faculties.

In order to support this last proposition, I solicit your attention, for a brief space, to our helpless condition as individuals. In social and civilized life, not one of us could subsist in comfort for a day, without the aid and society of our fellow-men.* This position will not be generally disputed; but the idea is almost universal, that if we only acquire property enough, we may command, by means of money, every object and every service that our utmost fancies can desire. This, however, is a grave error. Has any of you ever been travelling, and lost or broken some ingenious and useful article which you were constantly using, purchased in London or Edinburgh; and have you, on coming to a considerable village in the country, where you felt certain that you would be able to supply your want by a new purchase, found that you searched in vain? The general inhabitants of the district had not yet adopted the use of that article; the shops contained only the things

* Alexander Selkirk subsisted in solitude for four years, on the uninhabited Island of Juan Fernandez, in comfort, and even with enjoyment, after he had become accustomed to his situation; but he had a fine climate and a fertile soil, with unbounded range for action; and a human being left without aid in a civilized community, would be far more helpless and miserable.

which they demanded; and you speedily discovered that, however rich your purse might be in sovereigns, you could not advance beyond the sphere of enjoyment of the humbler people, into whose territory you had come. Or, during a residence in the country, do you take a longing for some particular book—not a rare or old work, but one on an important and generally cultivated science, say Lyell's Geology, or Murray's Chemistry—and repair to the circulating library of the country town? You search the catalogue for it in vain! You go next to the best bookseller's shop, but it is not there either. The bookseller looks into his London or Edinburgh correspondent's catalogue, finds the name and price at once, and offers to get the book for you by the next monthly parcel; but in the meantime you receive a convincing proof that you cannot, without drawing on the stores of a more scientific population, advance, even intellectually, before the general inhabitants of the country in which you are located; because the means of doing so do not exist around you. If you proceed to survey the catalogue of the county circulating library, you will find that it contains chiefly the standard novels, with the current magazines, and such voyages and travels as have acquired a great popularity. With these you must rest contented, or draw your supplies from a district more advanced in intellectual culture.

Now, the principle which is here illustrated holds good universally in social life.

If you are a parent, and see the imperfections of the prevailing system of education, you cannot improve your condition until a teacher and a large number of parents shall have concurred in certain views, and combined in the institutions of an improved seminary. Many applications have been made to me, for information where seminaries for rational education, particularly for females, were to be found; but, until very recently, I could not tell; because none such, to my knowledge, existed. We have now several of these institutions in Edinburgh; among others, the infant-school of Mr. and Miss Anderson, in Gayfield-square. Until these were instituted, individual parents were compelled, by social necessity, to place their children in schools of which they did not approve, because they could find no better. Nay, enlightened teachers have told me that their schools are arrested in their progress, and retained in arrear of their own knowledge and convictions of improvement, in consequence of the

prejudices of parents rendering it unsafe for them to adopt new methods. The improved schools, so far as they exist, have been created only by the enlightenment of parents, by the aid of the press and general instruction.

Is any of us convinced that human life is rendered unnecessarily laborious by our present habits of competition, and does he desire to limit his hours of labour, and long ardently to enjoy more ample opportunity for exercising his moral and intellectual faculties?—he soon discovers that while his neighbours in general shall continue to seek their chief happiness in the pursuit of wealth, or the gratification of ambition, he can accomplish little toward realizing his moral desires. He must keep his shop open as long as they do; he must labour in his manufactory up to their full standard of time; or if he be a member of a profession, he must devote as many hours to business as they; otherwise he will be distanced in the race, and lose both his means of subsistence and his station in society. So true is this representation, that in my own day, many of the men who, without fortune, have embarked in public life, that is, who have taken the lead in public affairs, and devoted a large portion of their time to the business of the community, have ruined themselves and their families. Their competitors in trade, manufactures, or professional pursuits, were dedicating their energies to their private duties, while *they* were *dividing* their attention between them and the public service; and they were, in consequence, ruined in their individual fortunes, and sank into obscurity and want. Yet it is certain, that the business of the state, or of a particular town, or city, ought to receive a due portion of attention from the inhabitants.

This absolute dependence of individuals on the state of the social circle in which they live, extends through all the ramifications of existence. Does any individual entertain higher notions of moral and religious duty than are current in his own rank and age?—he will find, when he attempts to carry them into practice, that he becomes an object of remark to all, and of dislike and hostility to many. Does any individual perceive the great foes to health and comfort, in narrow lanes, small sleeping apartments, and ill ventiliated rooms and churches, and desire to have them removed?—he can accomplish absolutely nothing, until he has convinced a vast multitude of his fellow-citizens of the reason-

ableness and advantage of his projected improvements, and induced them to co-operate in carrying them into effect. Does any of us desire to enjoy more rational public amusements than those at present at our command?—he cannot succeed, unless by operating on the understandings and tastes of thousands. Perhaps the highest social pleasure of life is that of familiar converse with moral and intelligent friends; but do we not all feel that, from the general absence of a cultivated taste and enlightened understanding, our social parties are in general cumbrous and formal displays of wealth and luxury, and much more occasions of ostentation than of pleasing mental entertainment? It is only by a higher general cultivation of the mind that this evil can be brought to an end. It is the want of mental resources that occasions this dull display.

But perhaps the strongest proof of the close connexion between the public welfare and private interest, is afforded by the effects of any great political or commercial convulsion. In 1825-6, we saw extensive failures among bankers, merchants, and manufacturers; and how universal was the individual suffering through all classes! Labourers could find no employment, and the shopkeepers who supplied them had few customers, and these unable to pay. The great manufacturers who supplied these classes with clothing and articles for domestic use were idle; the house proprietor suffered for want of solvent tenants, and the landed proprietor found a dull and disadvantageous market for his produce. Contrast this picture with the condition of the country when the great branches of manufacturing industry are prosperous, and how different the happiness of individuals! Thus it appears clear, that even under the present system of the pursuit of individual interest, the real welfare of each individual is much more closely connected with that of his neighbours than is generally recognised. This proves that a fundamental element of individual advantage is public prosperity.

According to my humble conviction, therefore, the very first lesson relative to our social duties, which ought to be given to the young, is to open their understandings to this great fact in the moral administration of the world, that the law of Christianity, which commands us to love our neighbours as ourselves, is actually written in our constitution, individual and social, and is a maxim which must become

practical, before we can become truly prosperous and happy as individuals.

The precept has been generally interpreted to mean that we should do specific acts of kindness to the individual men who live locally in our neighbourhood, or who are connected with us by ties of intimacy or kindred; and the parable of the good Samaritan naturally tends to excite this idea: but, although this is unquestionably one, and a very important, application of it, the principle of the precept goes much farther. It enjoins us to arrange our social institutions and our whole practical conduct in such a manner as to render us all simultaneously, and, as nearly as may be, equally, happy; and apparently our nature has been constituted to admit of this being done, with unspeakable advantage to all, whenever we shall thoroughly understand our constitution, its moral wants, and its capabilities. At present this principle is scarcely at all understood, and is certainly not generally acted on.

A few years ago we used to hear the maxim often repeated, that private persons had nothing to do with public affairs; that their business was to mind their shops, their manufactories, their professions, and their families, and to leave public matters to public men. The evil consequences of the world having followed this rule in past ages, may be read in the wide aberrations of many of our laws and institutions, and of our social condition, from the standards of reason and general utility. If you will peruse the pages of history, you will find wars often undertaken from the caprices of a single sovereign, which spread devastation and misery among millions of people. These could not have been waged if the millions of private persons on whom the calamities fell, had considered the public interest inseparably connected with their own, and had exercised an enlightened control over the actions of their rulers. Another instance is found in the history of the slave-trade. It proceeded from individual rapacity, and constituted the foulest blot that ever stained the fame of Britain. It enriched a few individuals at the expense of every principle of humanity, and in defiance of every Christian precept. At no period was it approved of by the general voice of the people; but each was too busy with his private affairs to be able to make a simultaneous and general effort to arrest its pernicious progress At last, growing intelligence and increasing mo-

rality, in the great body of the people, did produce this co-operation, and, after ages of crime and misery, it was extinguished, by the nation paying £20,000,000 for the freedom of the slaves. If the British people had been able earlier to insist on the cessation of this odious traffic, how much of human misery, besides the loss of the £20,000,000, would have been avoided! If we trace narrowly the great causes why our rulers have been permitted to waste the public resources, and incur the national debt, which is now felt to form such a vast impediment to public improvement, we shall find that too often the individuals of the nation were calculating the private gain which hostilities would produce to them, in creating a demand for farm produce, for the maintenance of fleets and armies, for cloth for uniforms, or for iron for arms, and so on;—utterly blind to the fact that the war was destroying the national resources, and that they themselves would, in the end, pay for all. Unfortunately the maxim that each of us should mind his private affairs, make gain of the public if he can, and leave public matters to public men, still reigns in too much vigour. The number of individuals is yet small, who take an enlightened interest in the social welfare: so much is this perceptible even in listening to mere discourses upon it, that I have seen my audience diminish in proportion as the lectures have left the interests of individuals and proceeded to those of the public. This indicates a limited capacity for thought. One of the most certain marks of a truly enlightened mind, is the power of comprehending the dependence of our individual welfare on public prosperity. I do not mean, of course, that each of us should become a political reformer, or a conservative, or a brawler about town politics, and about police regulations, as our chief business, to the neglect of our private duties. This would be preposterous, and would augment, not diminish, the evils of our social condition. What I wish to enforce is, the general conviction that our individual enjoyments, viewed in an enlarged light, are inseparably bound up with those of the society in which we move; and that it is, therefore, both our interest and our duty, to study attentively the nature, objects, and practical results, of our social mechanism; to compare them with our faculties; and then to devote all the time and attention that may be necessary to bring our institutions and habits of life into accordance with our higher powers

The advantages of acting on these views would be numerous and important. We should learn to regard public measures in their real relationship to general utility, and not through the distorting medium of our private interests and partialities. We should discover the incalculable power which society possesses to improve its own condition and institutions, whenever unanimity is attained; and we should feel much more disposed than at present, to promote, with our moral influence, the ascendency of all such measures as are truly calculated to lead to public good, although benefiting ourselves only in our social capacity. Another effect of enlightened views of our social welfare being generally entertained, would be, that men of far higher moral and intellectual character would become candidates for offices of public trust and honour, because they would be certain of support from a moral and intelligent public. At present, the busy men in all the minor departments of political and public life, are too often those who are actuated by a restless vanity, or who expect to attain some selfish end through their public influence and connexions. From the general disbelief in disinterested motives, public men are at present frequently rewarded with obloquy and abuse, however zealously and uprightly they may discharge their official duties; and this deters men of delicacy and of sensitive modesty from accepting official trusts. There are, fortunately, many exceptions, but I fear that there are also too many examples of this being the truth. The truly enlightened and disinterested shrink from the means which selfishly ambitious men employ, not only to obtain, but to wield and preserve power; and hence the field is left too entirely to them. The remedy for these evils is to educate the public at large into a perception of the real nature and importance of their social interests and duties.

If I be correct in the opinion that the happiness of each individual is inseparably connected with that of the society in which he lives, and that the law that we must love our neighbour as ourselves really means, in its extensive sense, that general enjoyment can arise only from improved social habits and institutions—then I shall not be thought to be guilty of extravagance, when I remark, that in times past this view has rarely, to any practical end, been pressed on the attention of any class of society. Within the last fifty or sixty years political economy has been discussed on

philosophical principles; but the leading aim of the economists has been to demonstrate the most effectual means of increasing wealth. The very title of the first valuable work on the subject in this country, is "The *Wealth* of Nations," by Dr. Adam Smith. The principles which he expounded, it is true, embrace establishments for promoting religion and education, and other moral institutions; and no one can value his labours, and those of his successors, such as Ricardo, M'Culloch, and their followers, more highly than I do; yet it is unquestionable that the great aim of all these writers has been to clear away the rubbish that impeded the play of our selfish faculties, and to teach the advantage of all laws and institutions that will permit every man's mind to follow its own bent, in search of its own happiness in its own way, restrained only by the obligation that he shall not *directly* injure or obstruct the prosperity of his neighbour. In the infancy of civilization and social institutions, this instruction is most valuable; as is also the exposition of the natural laws by which the creation and diffusion of wealth are regulated; so that these writers are worthy of all consideration as being useful in their day. But society must *proceed* in its course. It has augmented its wealth, while many persons doubt whether the increase of its happiness has, in all ranks, kept pace with that of its riches. What seems now to be wanted is, the knowledge and adoption of principles allied to our moral, religious, and intellectual faculties, which may enable us fully to profit by the labours of political economists and of our skilful artisans. The extent of the people's power to improve their social condition is very great, if they could only be so far enlightened regarding the constituent elements of their own happiness, as to pursue it in a right direction, and in combination. The gigantic efforts of Britain in war afford an example of the prodigious effects, in the form of violence, which we are capable of producing by our combined wealth and mental energies. If our forefathers had dedicated to executing physical improvements and to instructing the people, the same ardour of mind, and the same extent of treasure, which they squandered from the year 1700 to 1815 in war, what a different result would at this day have presented itself! If they had bestowed honours on the benefactors of the human race as they have done on its destroyers, how different would have been the direction of ambition

The next requisite for improving our social condition, is the command of time for the discharge of our social duties. One day in the week is set apart for teaching and practising our religious duties; but in that day very little instruction is communicated, by our public and authorized teachers, touching the affairs of this world, and the laws by which the happiness of our social state may be best promoted. The other six days of the week are devoted to the advancement of our individual interests in the pursuit of wealth, or, as the Scripture designates it, to the collection of "the meat which perisheth." In the existing arrangements of society, our social duties do not appear to be at all recognised as incumbent on us. There are no seminaries for making us acquainted with them, and no time allotted for the practice of them. Those who discharge public duties, must either sacrifice to them the time which their competitors are devoting to their private interests, or overtask their minds and bodies by labouring when nature demands repose. Now, with all deference to existing opinions, I would humbly propose that a specific portion of time should be set apart for teaching in public assemblies, and discharging practically, our social duties, and that all private business should then be suspended. If half a day in the week were devoted to this purpose, some of the following consequences might be expected to ensue:

In the first place, the immense importance of social institutions and habits to individual happiness would be brought home to all. It would be half a day dedicated to the consideration of the means by which we might practically love our neighbours as ourselves: a public recognition of the principle, as one capable of being carried into practice, would, in itself, bend many minds toward realizing it.

Secondly, such an arrangement would enable, and also excite, the people at large to turn their attention seriously to moral and social considerations, on which their interests so much depend, instead of considering it meritorious and advantageous to neglect them: and it would tend to remove that dense mass of ignorance and prejudice which offers a powerful obstacle to all improvement. If I be correct in thinking that individual men cannot realize the Christian precepts in their actions, while living in a society whose ruling motives are opposed to them, it is obvious that the rectification of our social habits is an *indispensable* prelude

to the introduction of practical Christianity; and how *can* these be rectified unless by instructing the people in the means of improving them? Thus the religious community are deeply interested in promoting the plan of reformation now proposed.

Thirdly, the dedication of a specific portion of time to our social duties would leave leisure for truly virtuous and enlightened men to transact public business, without exposing themselves to be ruined by their competitors in the race of private interest. Under the present system, the selfish are enriching themselves while the patriotic are impoverishing their families by discharging their public duties. In short, either this or some other adequate means must be used, to communicate to men in general a correct and elevated view of their own nature, position, interests, and duties, as rational beings, with a view to induce them to improve their social habits, and also to afford faculties for the discharge of their public duties, before any substantial progress can be made in social improvement; and without social improvement, individual morality and happiness never can be securely or permanently maintained. In the "Constitution of Man" I have endeavoured to show that the object of the Creator in bestowing on man the power of abridging labour by mechanical inventions, appears to be to give him leisure for cultivating his moral and intellectual powers; and if this idea be right, there is no natural obstacle to the dedication of sufficient time to the purposes in question.

Perhaps the notion will present itself to many persons, that, if the industrious classes were congregated to receive instruction in this manner, the result would be the formation of innumerable clubs and debating societies, in which vivacious but ignorant men would lead their weaker brethren into mischievous errors, and imbue them with discontent. This would probably happen, if a sudden adoption of the plan took place, without previous preparation. At present, there is so great an ignorance of useful and sound social principles, that such unions would probably be abused; but a young and rising generation may be prepared, by training and education, for comprehending and performing their social duties, and then leisure for the practice of these will lead only to good.

So little attention has been paid to instructing the people

at large in their social duties, that I am not acquainted with a single treatise on the subject, calculated for popular use except the 38th No. of "Chambers' Information for the People," which contains an excellent exposition of a variety of public duties; but it is necessarily limited, in comparison with the vast extent of the subject. Nay, not only has no instruction in social duties been provided for the people, but the opinion has been very generally entertained that they have no such duties to discharge, except to pay taxes, and bear arms when balloted to serve in the militia; and that they go entirely out of their sphere, when they turn their attention to public affairs. This appears to me to be a preposterous and fundamental error; for the industrious classes, of all grades, are, if possible, more directly and strikingly affected by the good or bad management of public matters, or by our social condition, than the rich, in whose hands alone it has been imagined that the discharge of social duties should be placed. The operative tradesman and small shopkeeper absolutely rise or fall with every wave of public prosperity or adversity; whereas, the landed proprietor and the great capitalist are able to weather many a social storm, with scarcely a perceptible abridgment of their enjoyment.

After the people at large are enlightened, and thoroughly imbued with the love of justice and of their neighbours' happiness, another social duty will be, to carry into practice, by all moral means, the grand principle of equalising, as much as possible, the enjoyment of all—not by pulling down the fortunate and accomplished, but by elevating others, as nearly as may be, to an equality with them; all privileges and artificial ranks which obstruct the general welfare ought to be abolished; not violently, however, but gradually, and, if possible, by inducing their possessors to give them up, as injurious to the public and themselves.

The next social duty which I mention, relates to the maintenance of the poor. Much diversity of opinion prevails on the causes of poverty, the remedies of it, and the best means of managing the poor. Many political economists have taught that there ought to be no legal provision for the poor, because the existence of a legal provision operates as a direct stimulus to poverty; it induces the indolent and vicious to relax their own efforts to earn the means of

subsistence, and leads them to throw themselves unblushingly, and as a matter of right, on the public bounty. Other economists, especially in more recent days, have taught the very opposite doctrine, and given Ireland as an instance of unexampled poverty and misery, arising in consequence of there being in that country no legal provision for the poor; and it is now proposed to enact poor-laws for Ireland. This proposal is based on the ground, that if the rich be not compelled to support the poor, they will entirely abandon the whole class from which the poor arise, and allow them to sink into the lowest depths of ignorance, misery, and degradation: whereas, if they be forced to maintain all the victims of these unhappy circumstances, they will be prompted by their own interest to use means for their social improvement, so as to prevent them from becoming an intolerable burden on themselves. Again, some political economists, of whom Dr. Chalmers is the chief, regard all compulsory assessments for the poor as injurious to society, and maintain that private benevolence, if fairly left to itself, is quite adequate to the discharge of the duty of providing for them. Other men, equally wise and experienced in the world, are altogether disbelievers in this alleged power of the principle of benevolence, and argue, that the only effect of relying on it would be to permit the avaricious to escape from all contribution, and to throw the burden of the poor entirely on the benevolent, who, in general, are overwhelmed with demands on their bounty.

Scientific knowledge of human nature, and of the influence of external circumstances on happiness, cannot be general when such widely different doctrines, regarding a question so momentous, are supported by men of equal profundity and respectability.

The view of it which is presented by the new philosophy, is the following:

The causes of that degree of poverty which amounts to destitution, are great defects in the body or mind of the individuals who fall into this condition, or in both. The lame, the deaf, and the blind, may be poor through bodily defects; and if so, they are the victims of the organic laws, and should be comfortably maintained by the more fortunate members of society. Their numbers are not great, in proportion to well-constituted men, and their maintenance would not be felt as a severe tax, if they were the only burdens on the

benevolence of the community. The idiotic belong to the same class. All that society can accomplish in regard to such persons is, to support comfortably those who exist, and to use means to render their numbers as small as possible in future generations. This can be accomplished best by instructing the community at large in the organic laws, and presenting to them every intelligible motive to obedience

The most numerous class of destitute poor is that which springs from deficiency of size or quality in the brain, or in the intellectual region of it, not amounting to idiocy, but occasioning so much mental weakness that the individuals are not capable of maintaining their own place in the grand struggle of social existence. Persons so constituted often provide for their own wants, although with difficulty, during the vigorous period of their lives, and become helpless and a burden on the community in the wane of life. That the cause of their falling into destitution is essentially an imperfection in their mental organs, any one may ascertain, by qualifying himself to distinguish well-constituted from ill-constituted brains, and then going into any of the charity workhouses or asylums for adults, and observing the heads and temperaments of their inmates. It is obvious, that teaching the organic laws and improving the external circumstances of society are the most feasible means for lessening the numbers of these unfortunate victims in future times.

Another proof that these physiological defects lie at the root of the evil of poverty, may be obtained by observing the temperament, and size and forms of the heads, of the children of the higher and middle classes, and comparing them with those of the children of the poor, found in the parish charity workhouses. The latter children, with some exceptions, spring from parents who are the refuse or dregs of the community, and through whose feebleness and vices they become burdens on the parish. These children are palpably inferior in temperament, and in size or form of brain, to the offspring of parents of the middle and higher ranks; and teachers who have been employed in schools consisting of children of these superior grades, and who have afterward been placed in charge of the children in public charities, have remarked an extraordinary difference of native capacity between the two; the children of the pauper asylum being much less apt to learn.

Now, these facts, although, as I have said, they go to the root of the evil, are generally unknown and unattended to. An accomplished manager of the poor of a parish, according to the present system, is a man who resists, to the very last extremity, every application for charity, and who, when resistance is no longer possible, obtains the greatest quantity of food and raiment for the smallest amount of money. Economy in contracts is the grand object; and those managers are covered with glory, who are able to reduce the assessment on the parish one-half per cent. Without meaning at all to depreciate the advantages of economy, I remark that this mode of management reminds me of the manner in which an old relative of my own coped with the rushes, which grew too abundantly in one of his fields. He employed women, whom he hired at so many pence a day, to pull them up; and if the wages of the women fell from 10d to 6d or 8d a day, he thought that he had managed the rushes to great advantage that year. But it so happened that the rushes, like the poor, constantly reappeared, and the labour of pulling them up never came to an end. At last, this excellent person died, and his son succeeded to the farm. This son had received a scientific education, and had heard the chemical qualities of soil, and of the various metals and minerals which are usually found incorporated with it, explained by one professor; and by another professor he had been taught the effect of these and of other circumstances on vegetation. He thus discovered that stagnant water is the parent of rushes; and when he succeeded to the farm, he cut a deep drain through a high bank, obtained declivity to cause the water to flow from the field, and then constructed drains through it in every direction. By this means he dried the soil; the rushes disappeared, and have never since been seen there; the annual labour of pulling them up is saved, and the expense of it is devoted to farther improvements.

So long as society shall neglect the causes of poverty, and omit to remove them, and so long as they shall confine their main efforts to making cheap contracts for supporting the poor, so long will they have a constant succession of poor to maintain. Nay, there is a great tendency in their proceedings to foster the growth of the very poverty which so grievously distresses them.* I have said that the children in the charity workhouses have generally low tempera-

* See note on page 219.

ments and inferior brains. Now, these qualities are the great parents of poverty. To prevent these children, therefore, from becoming paupers when they shall fall into the decline of life, and from rearing an inferior race, also bordering on pauperism, it would be necessary to improve, by every possible means, their defective organization. This can be done only by supplying them with nutritious diet, and paying the utmost attention to their physical and mental training. By the present system, they are fed on the poorest fare, and their training is very imperfectly conducted. They look dull, inert, heavy, and lymphatic; and are not fortified so much as they might be against the imperfections of their natural constitutions. In feeding pauper children with the most moderate quantity of the coarsest and cheapest food, means are actually taken to perpetuate the evil; for bad feeding in childhood weakens the body and mind, and consequently diminishes the power of the individuals to provide for themselves. Attention, therefore, ought to be devoted, not merely to the support of existing paupers, but also to the means of preventing another crop from springing up in the next generation. Our present system may be compared to that which the farmer would have pursued, if he had watered the field after pulling up the rushes, in order to assist nature in accomplishing a new growth.

In making these observations, I beg to be understood as not blaming any particular managers of the poor for their proceedings, or accusing them of neglect of duty. The principles which I am now expounding have hitherto been unknown to these persons, and are not yet generally acknowledged by society at large. Public men, therefore, could not act on them. But believing them to be founded in nature, and to be highly important, I use the freedom to announce them for general consideration, in the confidence, that if they be supported by facts, they will in time become practical; and if they shall be shown not to be true, I shall rejoice in their incorrectness being discovered. One fact, at all events, cannot be controverted; namely, that society has not yet discovered either the causes or the remedy of poverty: hence, I conceive the statement of new principles to be neither arrogant nor unnecessary; leaving them, as I do, to stand or fall by the result of observation and experience.*

* The preceeding lecture was written and delivered in 1835, and the views of pauperism which it contains were then gene

LECTURE XII.

PAUPERISM AND CRIME.

Causes of pauperism continued—Indulgence in intoxicating liquors—Causes producing love of these;—Hereditary predisposition; Excessive labour with low diet; Ignorance—Effects of commercial convulsions in creating pauperism—Duty of supporting the poor—Evils resulting to society from neglect of this duty—Removal of the causes of pauperism should be aimed at—Legal assessments for the support of the poor advocated—Opposition to new opinions is no reason for despondency, provided they are sound—Treatment of criminals—Existing treatment and its failure to suppress crime—Light thrown by Phrenology on this subject—Three classes of combinations of the mental organs, favourable, unfavourable, and middling—Irresistible proclivity of some men to crime—Proposed treatment of this class of criminals—Objection as to moral responsibility answered.

In the immediately preceding lecture, I entered upon the consideration of the social duty of providing for the poor. The removal of the *causes* of pauperism, it was observed, ought to be attended to, as well as the *alleviation of the misery* attending it. One great cause of pauperism is bodily and mental defect; and it was held that those so afflicted should be maintained by society.

Another cause of pauperism, is the habit of indulging in the use of intoxicating liquors. This practice undermines the health of the whole nervous system, through which it operates most injuriously on the mind. The intoxicating fluid stimulates the nervous system directly, by its influence on the nerves of the stomach, and excites the whole organs of sensation, for the time, into more vivid action. Hence

rally regarded as theoretical and unfounded. Subsequent events have not only proved them to be sound, but have strongly excited public attention to the painful fact that, in Scotland, pauperism has increased and is rapidly increasing. Professor Alison, in his two pamphlets "On the Management of the Poor in Scotland," has, in my opinion, demonstrated, by irrefragable evidence, that the wretched pittances doled out to the poor in this country are inadequate to their comfortable subsistence, and that a continually increasing pauperism is the actual and inevitable consequence of the deep mental depression and physical degradation in which they habitually exist. 1840.

the drunkard enjoys a momentary happiness; but when the stimulus is withdrawn, the tone of the system sinks as far below the healthy state, as during intoxication it was raised above it. He then experiences a painful prostration of strength and vivacity, a feeling of deprivation, and a strong craving for a renewed supply of alcohol to recruit his exhausted vigour. During intoxication, the intellectual faculties are incapable of making any useful effort, while in the intervals between different debauches, the brain is so exhausted and enfeebled, that it is equally unfit to execute any vigorous purpose. The habitual drunkard thus sinks into the condition of a complete imbecile, and may become a burden on the industrious portion of the community for his maintenance.*

The causes of individuals falling into these habits are various. One is a hereditary predisposition. If the parents, or one of them, have been habitually addicted to some vice, its consequences affect their physical constitution, and they transmit a weakened and disordered organization to their children. This doctrine has been ridiculed, as if we taught that children are born drunk. They are no more born drunk than they are born in a passion; but they certainly are born with conditions of brain that tend ultimately to produce in them a love of intoxicating fluids.

Another cause of the tendency to drunkenness appears to be excessive labour with low diet. The nervous energy is exhausted through the medium of the muscles, and the stimulus of alcohol is felt to be extremely grateful, in restoring sensations of life, vigour, and enjoyment. This cause may be removed by moderating the extent of labour, and improving the quantity or the quality of the food. If alcohol

* The phenomena attending the different stages of intoxication appear to indicate that the brain is affected also directly in the following manner, although evidence is still wanting to render this view certain: Intoxicating liquors increase the action of the heart, and cause an increased flow of blood to the head. The first effect of this is, to stimulate all the organs into increased activity, and to produce feelings of vivacity and pleasure. The blood circulates most freely in the largest mental organs, because they have the largest bloodvessels. As intoxication proceeds, the smaller organs become first overcharged with blood, and their functions are impaired. Hence the intellectual powers become first obscured, then the moral sentiments, and lastly the propensities.

were withheld, and a nourishing diet supplied to such men, they would, after a few weeks, be surprised at the pleasurable feelings which they would experience from this better means of supplying the waste of their systems.

An additional cause of intoxication is found in ignorance. When an individual enjoys high health and a tolerably well developed brain, he feels a craving for enjoyment; a desire to be happy, and to be surrounded by happy friends. If he be uneducated and ignorant, his faculties want objects on which they may expand themselves, and he discovers that intoxicating liquors will excite his mind and give him a vivid experience, for the time, of the pleasures of which he is in quest. The bottle, for the sake of this artificial stimulus, is then resorted to, instead of the objects in nature related to the faculties, the study of which, and social intercourse with virtuous and enlightened men, were intended by the Creator as the natural excitements of the mind, calculated at once to render us happy, and to improve our external condition. This was the real source of the drunkenness which disgraced the aristocracy of Britain in the last generation. I am old enough to have seen the last-dying disgraces of that age. The gentlemen were imperfectly educated, had few or no mental resources, and betook themselves to drinking for the sake of mental stimulus, almost as a last resource. This view affords also an explanation of the fact that many professional men in the law and medicine, who reside in the provinces, fall into these pernicious habits. They do not find, in their limited sphere of duties, constant stimulus for their minds, and they apply to the bottle to eke out their enjoyments.

A more extensive and scientific education is the most valuable remedy for these evils. We have seen higher cultivation banish drunkenness from all the classes pretending to any rank or respectability in society, and the same effect may be expected to follow from the extension of education downward.

The last causes of pauperism to which I advert, are the great convulsions which occur every few years in our manufacturing and commercial systems, and which, by deranging trade, throw many individuals out of employment, give them the habit of relying on charity, and sink them so low in their habits and in their own estimation that they never recover their independence.

If, then, I am correct in the opinion, that the chief causes of pauperism are—*first*, a low temperament and imperfect developement of brain, attended with a corresponding mental imbecility, although not so great as to amount to idiocy; *secondly*, hereditary or acquired habits of intoxication, which impair the mind by lowering the tone of the whole nervous system; *thirdly*, gross ignorance; and *fourthly*, depression arising from commercial disasters—the question, whether the poor ought to be provided for by society, is easily solved. To leave them destitute would not remove any one of these causes, but tend to increase them all. To allow our unhappy brethren, who thus appear to be as frequently the victims of evil influences over which they have little or no control, as of their own misconduct, to perish, or to linger out a miserable existence unprotected and unprovided for, not only would be a direct infringement of the dictates of Benevolence and Conscientiousness, which should be our ruling feelings, and an outrage on Veneration (seeing that God has commanded us to succour and assist them); but would tend directly to the injury of our own interests.

The fact that the world is arranged by the Creator on the principle of dispensing happiness to the community in proportion to their obedience to the moral law, is here beautifully exemplified. By neglecting the poor, the number of individuals possessing deficient brains and temperaments is increased; the number of drunkards is increased; and the number of the ignorant is increased; and as society carries these wretched beings habitually in its bosom; as they prowl about our houses, haunt our streets, and frequent our highways, and as we cannot get rid of them, it follows, that we must suffer in our property and in our feelings, until we do our duty toward them. Nay, we must suffer in our health also, for their wretchedness is often the parent of epidemic diseases, which do not confine their ravages to them, but sweep away indiscriminately the good and the selfish, the indolent and the hard hearted, who have allowed the exciting causes to grow up into magnitude beside them *

* I have already adverted, on p. 219, to the destitute condition of the poor, and its tendency to cause the increase of pauperism. Professor Alison, in his pamphlet "On the Management of the Poor in Scotland," has shown that another of the consequences of their extreme want, is the prevalence of epidemic fevers among them in the large towns. This afflic-

On the other hand, by applying vigorous measures not only to maintain the poor, but to remove the causes of pauperism. all these evils may be mitigated, if not entirely removed. If a practical knowledge of the organic laws were once generally diffused through society, and a sound moral, religious, and intellectual education were added, I cannot doubt that the causes of pauperism would be unspeakably diminished. Phrenology conveys a strong conviction to the mind that precepts or knowledge are not sufficient *by themselves* to ensure correct conduct. The higher faculties of the mind must be brought into a state of *sufficient vigour* to be able practically to resist, not only the internal solicitations of the animal propensities, but the temptations presented by the external world, before sound precepts can be realized in practice. Now, a favourable state of the organs, on the condition of which mental strength or feebleness in this world depends, is an indispensable requisite toward the possession of this vigour; and as this fact has not hitherto been known—at least, has not been attended to—it seems to me probable that society does not yet know a tithe of its own resources for mitigating the evils which afflict it. The temperance societies are extremely useful in this respect. The substitution of comfortable food for intoxicating beverages has the direct tendency to benefit the whole nervous system, and to increase the vigour of the higher powers of the mind. Society at large should bend its whole energies, directed by sound knowledge, toward the accomplishment of this end.

tion is no longer confined to themselves. In 1839, the Fever Board and the Directors of the Royal Infirmary of Edinburgh reported, that, "notwithstanding every exertion, fever has kept its ground in this city; and that on three different occasions within these twenty years, it has assumed the form of an appalling epidemic; that its ravages have extend, while its ma lignity has greatly increased—the mortality having risen from one in twenty to near one in six; *and it has passed from the dwellings of the poor to those of the rich, and prevailed extensively among families in easy and affluent circumstances;* that, within the last two years, it must have affected at least ten thousand of the population of the city." In 1838, one in thirty. Here we see the rich falling victims to disease originating in their own neglect of the poor. A more striking illustration of the mode of operation of the natural laws, and of the certainty of the punishment which is inflicted for infringing them. could not have been presented

Holding it, then, to be clearly both the duty and the interest of society to provide for the poor, the next question is, How should this be done: by legal assessment, or by voluntary contributions? Phrenology enables us to answer this question also. The willingness of any individual to bestow charity depends not exclusively on the quantity of wealth which he possesses, but likewise on the strength of the benevolent principles in relation to the selfish in his mind. Now, we discover, by observation, that the organs of the benevolent and selfish feelings differ very widely in relative size in different individuals, and experience supports the conclusion which we draw from this fact, that their dispositions to act charitably, or the reverse, are widely different. Not only so, but, as the leading principle of our present social system is the pursuit of self-interest, it may be stated, as a general rule, (allowance being always made for individual exceptions,) that those in whom the selfish feelings, with intellect and prudence, predominate, will possess most wealth; and yet this very combination of faculties will render them least willing to bestow. Their wealth and benevolence will generally be in the inverse ratio of each other. This inference, unfortunately, is also supported by facts. It has frequently been remarked that the humble classes of society, and also the poorer members of these classes, bestow more charity, in proportion to their incomes, than the very wealthy. To trust to voluntary contributions, therefore, would be to exempt thousands who are most able, but least willing, to bear the burden, and to double it on those who are most willing, but least able, to support it.*

* Professor Alison has arrived at the same conclusions by means of practical observation. He says, "In following out this inquiry (into the condition of the poor) I have long since formed, and do not scruple to express, an opinion, which I cannot expect to be in the first instance either well received or generally credited in this country, viz., that the higher ranks in Scotland do much less (and what they do, less systematically, and therefore less effectually) for the relief of poverty and of sufferings resulting from it, than those of any other country in Europe which is really well regulated." And again, "many respectable citizens (of Edinburgh) never appear among the subscribers to any public charity, at the same time that they steadily withstand all solicitations for private alms, and thus reduce the practice of this Christian duty (charity) to the utmost possible simplicity."—*On the Management of the Poor in Scotland*, p. 11 and 23.

It appears to me that while the present principles of social action enjoy the ascendency, compulsory assessment is indispensable; and I am inclined to carry it the length of assessing for the support of the poor in all their forms. There are voluntary societies for supporting the destitute sick, for maintaining a House of Refuge, the Deaf and Dumb Institution, the Blind Asylum, the Royal Infirmary, and many other charitable institutions. I have been told that these, and all the other public charities of Edinburgh, are supported by about fifteen hundred benevolent individuals, many of whom subscribe to them all, and most of whom subscribe to several, while the remaining twenty thousand or thirty thousand of the adult population of the city and suburbs never contribute a farthing to these objects. In a sound social system this ought not to be the case. It is a social duty incumbent on us all to alleviate the calamities of our unfortunate, and even of our guilty, brethren; and until our moral principles shall be so quickened, as to induce us *all* to discharge our shares of this duty voluntarily, we should be compelled to do so by law.

I regret to say that one of the most striking examples of the undisguised predominance of the selfish principle is afforded by the society to which I professionally belong. The members of the College of Justice are exempted, by an old act of parliament, from assessments for supporting the poor and providing for the clergy in this city. I shall consider the question of the church at a subsequent stage of this course, but in the meantime remark, that not the shadow of a reason can be advanced for that exemption, in so far as regards the support of the poor; yet the society of Writers to the Signet have repeatedly refused, although urgently requested to waive this privilege, and bear their proportion, along with the other citizens, of this Christian burden. It is encouraging, however, to the believers in the tendency of the moral sentiments to gain the ultimate ascendency to learn, that although in the society to which I allude, the minority was only eleven, or some such small number, on the first division which took place for foregoing the exemption, yet, in consequence of discussion, it has increased at every subsequent division, and is now equal to very nearly one-half of the society; so that I have no doubt that, in time, it will be voluntarily relinquished.

On another point I am disposed to carry our social duties

farther than is generally done. I regard the money applied to the maintenance of the poor as, at present, to a great extent wasted, in consequence of no efficient measures being adopted by society to check pauperism at its roots. If I am correct in ascribing it to a low temperament, imperfect developement of brain, habits of intoxication, ignorance, and commercial fluctuations, efficient means must be used to remove these causes, before it can either cease, or be effectually diminished; and as the removal of them would, in the end, be the best policy for both the public and the poor, I am humbly of opinion that the community, if they were alive to their own interests, as well as to their duty, would supply the pecuniary means for laying the axe to the root of the tree, and, by a rational education, and elevation of the physical and mental condition of the lower classes of society, would bring pauperism to a close, or at all events diminish its present gigantic and increasing dimensions. Here the regret always occurs, that our senseless wars should have wasted so much capital that we must provide twenty-seven millions of pounds sterling, annually, for ever, to pay the interest on it; a sum which, but for these wars, might have been applied to the moral advancement of society, and have carried a thousand blessings in its train. If our moral sentiments were once rendered as active as our propensities have been, and I fear still are, we should apply our public assessments to benevolent and beneficial objects, render them liberal in proportion to the magnitude of the work to be accomplished, and pay them with a hearty good will, because they would all return to ourselves in social blessings.

The question is frequently asked, How are these principles, even supposing them to be founded in nature, ever to be carried into execution, seeing that the opinions of society are strongly opposed to them? In answer, I appeal to the experience of the world. All new opinions are rejected, and their authors persecuted or ridiculed at first; but, in all instances in which they have been true, they have been ultimately adopted. Galileo was imprisoned for proclaiming the first principles of a philosophical astronomy. Fifty years elapsed before his opinions made any perceptible progress, but now they are taught in schools and colleges, and the mariner guides his ship by them on the ocean. It was the same in regard to the circulation of the blood, and it will be the same in regard to the application of the new

philosophy to the social improvement of man. The present generation will descend, contemning it, to their graves, but, if it be true, we are sowing in young minds seeds that will grow, flourish, and ripen into an abundant harvest of practical fruits in due season. A thousand years are with the Lord as one day, and with society a hundred years are as one day in the life of an individual. Let us sedulously sow the seed, therefore, trusting that, if sound and good, it will not perish by the way-side, but bring forth fruits of kindness, peace, and love, in the appointed season.

I forbear suggesting any particular plan by which the objects now detailed may be accomplished; because no plan can become practical until the public mind be instructed in the principles, and convinced of the truth of the doctrines which I am now teaching; and whenever they shall be so convinced, they will devise plans for themselves with infinitely greater facility and success than we can pretend to do, who live only in the dawn of the brighter day.

The next social duty to which I advert, relates to the treatment of criminals, or of those individuals who commit offences against the persons or property of the members of the community. The present practice is to leave every man to the freedom of his own will, until he have committed an offence; in other words, until he have seriously injured his neighbour; and then to employ, at the public expense, officers of justice to detect him, witnesses to prove his crime, a jury to convict him, judges to condemn him, and jailers to imprison, or executioners to put him to death, according as the judges shall have decreed. It will be observed, that in all this proceeding, there is no inquiry into the causes which led to the crime, into the remedies for crime, or into the effects of the treatment administered on the offender, or on society; yet every one of these points ought to be considered, and clearly understood, before we can be in a condition to judge correctly of our social duties in regard to the treatment of criminals.

As to the cause of crime, there is a stange inconsistency between our theological and legal standards on the proclivity of the human mind to evil. The articles of our church teach us that the human heart is deceitful above all things and desperately wicked; while, legally, every man is regarded as being so completely a moral agent, that he can command not only his actions, but his inclinations and his will: and

that hence, when a clear law, which his intellect can comprehend, is laid down for his guidance, he is a just and proper subject for punishment if he infringe it. The premises and the conclusion in this last view are consistent with each other, and if this were a correct description of human nature, there would be no gainsaying the propriety of the practice. We should still, however, find a difficulty in accounting for our want of success in putting an end to crime; for, if these principles of criminal legislation and punitive infliction be sound, it appears a strange anomaly that crime has everywhere, and in every age, abounded most were punishment, especially severe punishment, has been most extensively administered, and that it has abated in all countries where penal infliction has become mild and merciful. There is, however, an error in this view of human nature, which phrenology enables us to detect.

It appears incredible, that in a well governed country like this, where detection and punishment are almost certain to follow crime, any man should infringe the law, if he were not urged by impulses which obtain the mastery over conscience and reason. We need not waste time, however, in speculating on this subject, but may come at once to facts.

As mentioned in a former lecture, the brain may be divided into three great regions; those of the Animal Propensities, Moral Sentiments, and Intellectual Faculties.

In some individuals the organs of the propensities bear the ascendency, in point of size, over those of the moral and intellectual faculties. Such men feel the impulses of passion very strongly, and are internally urged by vigorous selfish desires, which vehemently crave for gratification; while, on the other hand, they possess only feeble glimpses of moral obligation, and a glimmering of intellectual perception. When beings thus constituted are placed in a dense society, in which every man is struggling to acquire property and to advance his own fortunes, they commence the same career; but they take the road that first presents itself to their own peculiar minds; they are impatient to obtain gratification of their passions; they feel few restraints from conscience or religion, as to the mode of doing so; they are greatly deficient in intellectual capacity, in patience, perseverance, and acquired skill; and from all these causes they rush to crime, as the directest method of realizing pleasure.

The class of minds which forms the greatest contrast to this one, is that in which the moral and intellectual organs decidedly predominate over those of the animal propensities. Individuals thus constituted have naturally strong feelings of moral and religious obligation, and vigorous intellectual perceptions, while the solicitations of their animal passions are relatively moderate.

The third class is intermediate between these two. They have the organs of the propensities, of the moral sentiments, and of the intellectual faculties, nearly in a state of equilibrium. They have strong passions, but they have also strong powers of moral and religious emotion, and of intellectual perception.

Fortunately, the lowest class of minds is not numerous. The highest class appears to me to abound extensively; while the middle class is also numerous. The middle and the highest classes are at least as twenty to one, in comparison with the lowest.

I am aware that many of my present audience, who have not attended to phrenology, may regard these, not as facts, but as dangerous fancies and groundless speculations. To such persons I can only say, that if they will take the same means that phrenologists have taken, to discover whether these are truths in nature or not, they will find it as impossible to doubt of their reality, as of the existence of the sun at noon-day; and there is no rule of philosophy by which facts should be disregarded, merely because they are unknown to those who have never taken the trouble to observe them. I respectfully solicit you to consider that the brain is not of human creation, but the workmanship of God, and that it is a most pernicious error to regard its functions and its influence on the mental dispositions with indifference. I therefore assume that the views now presented are founded in nature, and proceed to apply them to elucidation of our social duties in the treatment of criminals.

In the case of persons possessing the lowest class of brains, we are presented with beings whose tendencies to crime are naturally very strong, and whose powers of moral guidance and restraint are very feeble. We permit such individuals to move at large, in a state of society in which intoxicating liquors, calculated to excite and gratify their animal propensities, are abundant and easily obtained, and in which property, the great means of procuring pleasure

is everywhere exposed to their appropriation; we proclaim the law, that if they invade this property, or if, in the ecstasies of their drunken excitement, they commit violence on each other, or on the other members of the community, they shall be imprisoned, banished, or hanged, according to the degree of their offence; and, in that condition of things, we leave them to the free action of their own faculties and the influence of external circumstances.

It appears a self-evident proposition, that if such men are actuated by strong animal passions, (a proposition which few will dispute,) there must be an antagonist power, of some kind or other, to restrain and guide them, before they can be led to virtue or withheld from vice. Now, the well constituted members of society, judging from their own minds, assume that these individuals possess moral feelings and intellectual capacities adequate to this object, if they choose to apply them. On the other hand, the conviction forced on me by observation, not only of the brain, but of the lives and histories of great and habitual criminals, is, that they do *not* enjoy these controlling powers in an adequate degree to enable them successfully to resist the temptations presented by their passions and external circumstances. In treating of the foundations of moral obligation, I mentioned that I had repeatedly gone to jails, and requested the jailers to write down the character and crimes of the most distinguished inmates of the prisons; that, before seeing these, descriptions, I had examined their heads and written down the dispositions and probable crimes which I inferred from the developement of their brains, and that the two had remarkably corresponded. This could not have happened, unless the brain had in such cases a real influence in determining the actions of the individual. Especially, wherever the moral organs and the intellectual organs were very deficient, and the organs of the propensities large, I found the whole life to have been devoted to crime, and to nothing else. I saw a criminal of this description, who had been sent to the lunatic asylum in Dublin, in consequence of the belief that a life of such undeviating wickedness as he had led could result only from insanity; for he had repeatedly undergone every species of punishment, civil and military, short of death, and had also been sentenced to death—all without effect. Yet the physician assured me that he was not insane, in the usual acceptation of the term; that all his

mental organs and perceptions, so far as he possessed them, were sound, but that he had scarcely any natural capacity of feeling or comprehending the dictates of moral obligation, while he was subject to the most energetic action of the animal propensities whenever an external cause of excitement presented itself. In him the brain, in the region of the propensities, was enormously large, and very deficient in the region of the moral sentiments. The physician, Dr. Crawford, remarked, that he considered him most properly treated when he was handed over to the lunatic asylum, because, although his brain was not diseased, the extreme deficiency in the moral organs rendered him morally blind, just as the want of eyes would render a man incapable of seeing.

In October, 1835, I saw another example of the same kind in the jail of Newcastle, in the person of an old man of 73, who was then under sentence of transportation for theft, and whose whole life had been spent in crime. He had been twice transported, and at the age of 73 was still in the hands of justice, to suffer for his offences against the law.* These are facts, and being facts, it is God who has ordained them. Phrenologists are no more answerable for them, or their consequences, than the anatomist is answerable for blindness, when he demonstrates that the cause of that malady is a defect in the structure of the eye. Blame appears to me to lie with those persons who, under an infatuation of prejudice, refuse to examine into these most important facts when they are offered to their consideration, and who resolutely decline to give effect to them in the treatment of criminals.

The question now presents itself, What mode of treatment does this view of the natural dispositions of criminals suggest? Every one is capable of understanding, that if the optic nerve be too feeble to allow of perfect vision, or

* In October, 1839, I visited the state-prison of Connecticut, at Weathersfield, near Hartford, in presence of the Rev. Mr. Gallaudet, Principal Totten, and other gentlemen, and saw a man in whose head the moral organs were very deficient and the animal organs large. Mr. Pilsbury, the superintendent of the prison, stated that this man had passed thirty years of his life in the state-prison, under four several sentences, and that he had no doubt, that, if then liberated, he would in a week be again engaged in crime.

the auditory nerve too small to permit complete hearing, the persons thus afflicted should not be placed in situations in which perfect vision and hearing are necessary to enable them to avoid doing evil; nay, it will also be granted, without much difficulty, that deficiency in the organ of Tune may be the cause why some individuals have no perception of melody; and it will be admitted, that, on this account, it would be cruel to prescribe to them the task of learning to play even a simple air, under pain of being severely punished if they failed. But most people immediately demur when we assure them that some human beings exist, who, in consequence of deficiency in the moral organs, are as blind to the dictates of benevolence and justice, as the others are deaf to melody, and that it is equally cruel to prescribe to them, as the law does, the practice of moral duties, and then to punish them severely because they fail. Yet the conclusion that this treatment is cruel is inevitable, if the premises be sound.

What, then, should be done with this class of beings? for I am speaking only of a class small in comparison with the great mass of society. The established mode of treating them by inflicting punishment has not been successful. Those who object to the new views, constantly forget that the old method has been an eminent failure—that is to say, that crime has gone on increasing in amount, in proportion as punishment has been abundantly administered; and they shut their eyes to the conclusion which experience has established, that be the causes of crime what they may, punishment has not yet been successful in removing them, and that therefore it cannot, on any grounds of reason, be maintained to be of itself sufficient for this purpose. The new philosophy dictates that the idea of punishment, considered as mere retribution, should be discarded. Punishment, in this sense, really means vengeance; and the desire for inflicting it arises from an erroneous conception of the structure and condition of the criminal mind, and from the activity of our own passions, which are excited by the injuries inflicted on us by the actions and outrages of this class of persons. Our duty is to withdraw external temptation, and to supply, by physical restraint, that deficiency of moral control which is the great imperfection of their minds. We should treat them as moral patients. They should be placed in penitentiaries where they could be

prevented from abusing their faculties, yet be humanely treated, and permitted to enjoy as much of liberty and comfort as they could sustain without injuring themselves or their fellow-men. They should be taught morality, knowledge, and religion, so far as their faculties enable them to learn; and they should be trained to industry. This mode of treatment would render their lives happier than they could ever be were their persons left at large in society, and it would make them also useful. I consider the restoration of this class of persons to the possession of a moral self-control as nearly hopeless: they resemble those who are blind and deaf from irremediable defects in the organs of sight and hearing. If, however, by long restraint and moral training and instruction, they should ever become capable of self-guidance, they should be viewed as patients who have recovered, and be liberated, on the understanding that if they should relapse into immoral habits, they should be restored to their places in the asylum.*

The objection is frequently stated that this doctrine abolishes responsibility; but I am at a loss to comprehend the exact import of this objection. As formerly mentioned, the distinction between right and wrong does not depend on the freedom of the human will, as many persons suppose, but on the constitution of our faculties. Every action is morally right which gratifies our sentiments of Benevolence, Veneration, and Conscientiousness, enlightened by intellect; and every action is wrong which outrages or offends them. Hence, if we see a furious madman or a mischievous idiot (whom no one supposes to be a free agent) burning a house or murdering a child, we are compelled, by our whole moral faculties, to condemn such actions as wrong, and to arrest the perpetrator of them in his wild career. Now, the case of the class of offenders which we have been discussing is precisely analogous. Like the madman, they act under the influence of uncontrollable passions, existing, in their case, in consequence of the *natural* predominance of certain

* I have conversed on the subject of the irreclaimable dispositions of this class of criminals, with intelligent and humane superintendents of prisons in Britain and the United States of America, and they have expressed a decided conviction that there are prisoners whom no punishment will recall to virtue, but who, when liberated, constantly recommence their career of crime.

organs in the brain, and in his, from ascendency of the passions produced by cerebral disease. Society absolves idiots and the insane from punishment, and we only plead that the class of these unfortunate beings is really more extensive than the law at present recognises it to be. The actions of the morally insane, whom we wish to include in it, are without hesitation condemned, and we never doubt that we ought to stop their outrages, although we do not regard the men as guilty. The only question, therefore, is, By what means may their actions be most effectually arrested? The disciples of the old school answer, that this may be best done by punishment; but in doing so, they turn a deaf ear to the lessons of experience, which proclaim only the failure of this treatment in times past; they close their understandings against the examination of new facts, which promise to account for that failure; they assume, in opposition to both philosophy and experience, that these men can act rightly if they choose, and that they *can* choose so to act; and finally, by virtue of these prejudices, errors, and false assumptions, they hold themselves absolved from all obligation to alter their proceedings; and without consideration for the real welfare either of society or of the offenders, they indulge their own animal resentment by delivering over the infringers of the law to jailers and executioners, to be punished for doing what their defective mental constitution rendered it impossible for them to avoid committing. There is no wonder that crime does not diminish under such a form of administration.

The disciples of the new philosophy, on the other hand, answer the question by appealing to experience; by looking at facts; by consulting reason; by regarding the advantage at once of the criminal and of society: they say, that physical and moral restraint are the only effectual remedies for this great evil; that these should be unhesitatingly applied—not vindictively, but in affection and humanity; and that then the offences of this class of criminals will be diminished in number.

There remain two other classes of minds to be considered in relation to criminal legislation—those whose organs of propensity, moral sentiment, and intellect, are pretty equally balanced, and those in whom the moral and intellectual faculties predominate; but the consideration of these must be reserved till the next lecture.

LECTURE XIII.

TREATMENT OF CRIMINALS CONTINUED.

Criminals in whom the moral and intellectual organs are considerably developed—Influence of external circumstances on this class—Doctrine of regeneration—Importance of attending to the functions of the brain in reference to this subject, and the treatment of criminals—Power of society over the conduct of men possessing brains of the middle class—Case of a criminal made so by circumstances—Expediency of keeping certain men from temptation—Thefts by post-office officials—Aid furnished by Phrenology in selecting persons to fill confidential situations—Punishment of criminals—Objects of punishment—Its legitimate ends are to protect society by example, and to reform the offenders—Means of effecting these purposes—Confinement—Employment—Unsatisfactory state of our existing prisons—Moral improvement of criminals.

The second class of heads to which I directed your attention, is that in which the organs of the animal propensities, of the moral sentiments, and of the intellectual faculties, are all large, and nearly in equilibrium. In such individuals the large organs of the propensities give rise to vivid manifestations of the animal feelings, but the large organs of the moral sentiments and intellect produce also strong impulses of moral emotion and of intellectual perception. In their practical conduct, therefore, they are, to a remarkable extent, the creatures of external circumstances. If one of them be born of profligate parents, and abandoned to idleness, intoxication, and crime, his whole lower organs will thus, from infancy, be presented with objects calculated to call them into vivid action, while his moral sentiments will receive no proportionate training. The intellectual faculties will be employed only in serving and assisting the propensities. They will be denied all rational and useful instruction, while they will be sharpened to perpetrate crime and to avoid punishment. An individual thus constituted and trained will become an habitual criminal, and he will be the more dangerous on account of the moral and intellectual faculties which he possesses. These will give him an air of intelligence and plausibility, which will enable him only the more successfully to deceive, or to obtain access

to places of trust in which he may commit the more extensive peculations.

If, on the other hand, an individual thus constituted be placed from infancy in the bosom of a moral, intelligent, and religious family, who shall present few or no temptations to his propensities, but many powerful and agreeable excitements to his higher faculties; if he shall have passed the period of youth under this influence, and in early manhood have been ushered into society with all the advantages of a respectable character, and been received and cherished by the virtuous as one of themselves; then his moral and intellectual faculties may assume and maintain the ascendency through life.

If, again, an individual of this class have been religiously educated, but, at an early period of life, have left home, and been much thrown upon the world, that is to say, left to associate with persons of indifferent characters and dispositions, he may gradually deteriorate in his mental condition In the prime of manhood and blaze of his passions, he may be not a little profligate and disreputable in his conduct: but, as he advances in life, the energy of the animal organs will begin to decay; they will be exhausted by excessive indulgence; the moral organs may recover an activity which has long been unknown to them; his early religious impressions may resume their ascendency; he may perhaps sustain afflictions in his health, in his family, or in his worldly circumstances; (all which have a tendency, for the time, to quell the energy of the animal passions, and to allow the higher feelings freer scope for action;) and, under the influence of these combined causes and circumstances, he may come forth a repentant sinner and a reformed man.

In religion his process is generally called regeneration. According to my observation, the men who are converted and reformed from habitual profligacy, and who continue, afterward, permanently moral and religious characters, all possess this combination of brain. They become profligates at first from the energetic action of large organs of the animal propensities; and when they are converted, and continue to be respectable Christians after their conversion, they act under the control of their moral and intellectual organs

I am aware that, in making this statement, I am treading on delicate ground; because many sincere and excellent persons believe that these results flow from the influence

of the Holy Spirit, and that the Holy Spirit operates in regenerating sinners altogether independently of the laws of organization; in short, that the influence is miraculous Without questioning the influence of the Spirit in regeneration, (a point of doctrine which is purely theological, and does not fall within the scope of these lectures,) I observe that the real question is, Whether the Spirit operates in harmony with, or without reference and even in direct opposition to, the laws of organization? I feel myself constrained by the dictates of truth to say, that my observations on actual cases lead to the conclusion, that the action is uniformly in harmony with these laws. The brain and its laws proceed from God himself. To believe, therefore, that God establishes laws in nature, and prescribes to the human understanding a certain line of action as obedience to them; and at the same instant promises the influence of his Spirit in such a manner as to set them all at nought, and to produce the same beneficial results without such obedience, seems to me little calculated to promote the glory of God, or to benefit the human race.

Be it observed, that I do not at all dispute the *power* of God to operate independently of the natural laws: the very idea of his being omnipotent, implies power to do according to his pleasure, in all circumstances and times. My proposition is simply this—that the age of miracles being past, it does not now please God to operate on the human mind either independently of, or in contradiction to, the laws of organization instituted by himself. This reduces the question, not to one respecting God's power, for we all grant this to be boundless, but to one of *fact*—whether it pleases Him actually to manifest his power over the human mind, *always* in harmony with, or sometimes independently of, and at other times in contradiction to, the laws of organization; and this *fact*, like any other, must be determined by experience and observation. Now, I humbly report the results of my own observation; and say that, although I have seen a number of men of renewed lives, I have never met with one possessing a brain of the lowest character, who continued permanently moral amid the ordinary temptations of the world. On the contrary, I have seen these regenerated men uniformly to possess the brain in which the organs of the animal propensities, the moral sentiments, and the intellect, were all considerably developed; so that in these instances the

influence of religion seemed to me to operate completely *in harmony* with the organic laws. That influence cast the balance in favour of the higher sentiments, gave them the permanent ascendency, and hence produced the regenerated character.

These observations can be met, not by argument, but by counter facts. If any one will show me cases in which men, possessing the defective brains of idiots, or the diseased brains of insanity, have, by the influence of the Holy Spirit, been at once converted into rational and pious Christians, these will completely overthrow my conclusions; because they will show unequivocally that it does please God, in some instances, to operate on the mind, even in our day, independently of, or in contradiction to, the laws of organization. Nay, if examples shall be produced of men possessing the worst brains, becoming permanently, by the influence of religion, excellent practical Christians, I shall yield the point. But no such examples have yet been adduced. On the contrary, we see individuals whose heads are less than thirteen inches in circumference at the level of the eyebrows and occipital spine, continue irretrievable idiots through life; and we see madmen continue insane until their brains are restored to health by natural means. Nay, farther, I was told by the late Rev. Dr. Andrew Thomson, who attended Mary Mackinnon, the mistress of a brothel, while under sentence of death for murder, that he found it impossible, on account of a very great natural incapacity of mind, to convey to her any precise views or feelings of religion, or of the heinousness of her guilt, and that he was greatly grieved to observe, that nearly all that he said fell powerless, without making any impression on her mind, or if it did rouse any feeling, this lasted only for a moment. If you examine the developement of her head, as shown in the cast, you will find that the moral and intellectual organs are very deficient. She was, in regard to moral, intellectual, and religious impressions, nearly in the same state in which a person who possesses an extremely small organ of Tune is in regard to melody. Either he does not perceive the melody at all, or, if he does, the impression dies instantly when the instrument has ceased to sound.

Perhaps some of you may be of opinion that this is a discussion which belongs more to theology than to moral philosophy, and that a miscellaneous audience are not the

proper persons to whom to address remarks on so grave a subject. The question regarding what *is* the *scriptural doctrine* touching regeneration belongs to theology, and I avoid all discussion of it; but assuming it to *be* the scriptural doctrine, the question, Does the Holy Spirit act in harmony with, or in contradiction to, the laws of organization? is one which belongs to philosophy. The question, indeed, is a fundamental one in moral philosophy; because, if the laws of nature, on which alone philosophy rests, are liable, in the case of morals, to be traversed by divine influences operating independently of, or in contradiction to, them, *moral philosophy* can have no foundation. There may be a theology comprising a code of moral duty, founded on revelation; but assuredly there can be no philosophy of morals founded on nature. In like manner there can be no natural religion; because all our scientific observations and conclusions would be constantly liable to be falsified, and rendered worse than useless, by a supernatural influence producing results entirely independent of, or in contradiction to, the causes which were presented in nature for the guidance of our understandings. This question, therefore, is not only important, but, as I have said, fundamental to a course of moral philosophy; and I could not consistently avoid introducing it. Many theologians deny that any sound philosophy of morals can be drawn from the study of nature, and found morals, as well as religion, exclusively on revelation. It appears to me that they err in this conclusion; and that theology will be improved, when divines become acquainted with the natural constitution of the human faculties and their spheres of action.

I beg you to observe, that, in the manner in which I submit this question to your consideration, it assumes a different aspect from that in which it generally appears. In the discussions which commonly take place on it, we find arguments and opinions stated against arguments and opinions; and the result is generally mere unprofitable disputation. In the present case, I adduce facts—in other words, God's will written in his works; and these are placed, not against the Bible, (for, be it observed, there is no declaration in scripture that the Holy Spirit operates independently of, or in contradiction to, the natural laws,) but against human inferences unwarrantably (as it appears to me) drawn from scripture, that this is the case. It is God's facts in nature

which we place against human inferences deduced from scripture; and these inferences too, deduced at first, and now insisted on, by men who were, and are, entirely ignorant of the facts in question.

A second reason for introducing this subject is, that I consider it to be of great importance that religious persons should be correctly informed concerning the facts. If you examine the lists of the members of the most useful and benevolent societies all over the country, and especially of prison-discipline societies, you will discover that individuals distinguished for their religious character form a large and a highly influential proportion of them. These persons act boldly and conscientiously on their own principles; and if, in any respect, their views happen to be erroneous, they become, by their very sincerity, union, and devotion, the most formidable enemies to improvement. In consequence of profound ignorance of the facts in nature which I have stated, this class of persons, or at least many of them, are alarmed at the doctrine of the influence of the brain on the mental dispositions, and oppose the practical application of the views which it dictates in criminal legislation and prison-discipline; and they obstinately refuse to inquire into the facts, because they imagine that they have the warrant of scripture for maintaining that they *cannot be true.* This conduct is unphilosophical, and sheds no lustre on religion. It impedes the progress of truth, and greatly retards the practical application of the natural laws to the removal of one of the greatest evils with which society is afflicted. This is no gratuitous supposition on my part; because I know, from the best authority, that within these few weeks, when the prison-discipline society of this city was formed, religious men specially objected to the admission of an individual into that society, because he was known to be a phrenologist and to hold the opinions which I am here expounding: in other words, an individual who had studied and observed the Creator's laws in regard to the influence of the brain on the mental dispositions, was deliberately excluded from that society, lest he should induce it to act on the knowledge of these laws. You may judge of the wisdom of this proceeding.

Thirdly, I introduce this subject because, from the extensive observations which have been made by Dr. Gall, Dr. Spurzheim, and their followers, during the last five and thirty

years, in many parts of the world, I have the most complete conviction that the facts which I now state are true, and that they will inevitably prevail; and that, whenever they do prevail, the enemies of religion will be furnished with a new weapon with which to assail her, by the opposition which religious persons are now making to improvements in the treatment of criminals, in ignorance, as I have said, of these facts and of their inevitable consequences. They will point to that opposition, and proclaim, as they have often done, that religion sets herself forward as the enemy of all philosophy, and of every moral and social improvement which does not emanate from her own professors. Such an accusation will be most unfounded when directed against religion; because it will be applicable only to a few religious men, or to some ill informed and dogmatical individuals; but only the candid will give effect to this distinction, and it therefore becomes every sincere friend to the best and holiest of causes, not to give occasion to the scoffer to point the finger of contempt at it, by resisting truth.

To return to the subject from which we have digressed, I observe, that in the case of this class of brains, in which the organs of the propensities, moral sentiments, and intellectual faculties, are nearly in equilibrium, society enjoys a great power in producing good or evil. If, by neglecting education, by encouraging the use of intoxicating liquors, by bringing on commercial convulsions attended with extreme destitution, society allow men possessing this combination of mental organs to be thrown back, as it were, on their animal propensities, it may expect to rear a continual succession of criminals.* If, by a thorough and all-pervading

* Moral training, such as is practised in Wilderspin's infant-schools, is of great importance as a means of directing the faculties to proper objects. And phrenology, when taught to children as the philosophy of their own minds, will greatly aid parents and teachers in communicating to them correct and practical views of the proper spheres of action of their various faculties. While this sheet is in the press, I have observed an instance of the want of such knowledge and training leading to painful results. A female servant, a cook, who fell under my notice, had a bilious and nervous temperament, which gave great mental activity, a large Alimentiveness, Destructiveness, and Acquisitiveness, with a very large Secretiveness. Along with these were combined a very superior developement of the intellectual organs, large Benevolence and Veneration, very large Love of Approbation, and full, but not large, Conscien

training and education, moral, religious, and intellectual by the best regulated social institutions, providing steady employment, with adequate remuneration; and also by affording opportunities for innocent recreation; this class of men shall be led to seek their chief enjoyments from their moral and intellectual faculties, and to restrain their animal propensities, they may be effectually saved from the pit of perdition, and prevented from invading the property and peace of society. It is from this class that the great body of criminals arises; and as their conduct is determined, to a great extent, by their external circumstances, the only means of preventing them from becoming criminals is, to fortify their higher faculties by training and education, and to remove external temptation by improvement, as far as possible, of our social habits and institutions.

There are instances of individuals committing crime, who do not belong precisely to either of the classes which I have described, but who have, perhaps, one organ, such as Acquisitiveness, in great excess, or another, such as Conscientiousness, extremely deficient. These individuals occasionally commit crime, under strong temptation, although their dispositions, in all other points, are good. I knew an individual, in the situation of a confidential clerk, who had a good intellect, with much Benevolence, Veneration, and Love of Approbation, but in whom a large organ of Secretiveness was combined with a great deficiency of Conscientiousness. His life had been respectable for many years, in the situation of a clerk, while his duty was merely to write books

tiousness. She was able to read and to write well, and had received in other respects an ordinary Scotch education; but apparently no adequate moral training. Her immense Secretiveness, untrained to obey her higher powers, was the ruin of her mind. She habitually mystified, lied, and practised stratagems. She was an adept in complaisance and plausibilities, but, from long habits of deceit, she seemed incapable of relying on truth, even when it was her interest to do so. She became a confirmed drunkard, of a violent temper, and a thief. I have seen such a combination of the mental organs as this in persons in the middle ranks, whose conduct was respectable through life, and I can ascribe the difference only to the effects of training. If this individual had been early made acquainted with the nature and tendency of Secretiveness, Alimentiveness, Destructiveness, and Acquisitiveness, and had been trained to subject them to the guidance of the higher faculties, it is highly probable that she might have been saved from perdition. 1840

and conduct correspondence; but when he was promoted, and intrusted with buying and selling, and paying and receiving cash, his moral principles gave way: and the temptation to which he yielded was not a selfish one. He was much devoted to religion, and began by lending his master's money, for a few days, to his religious friends, who did not always pay him back; he then proceeded to assist the poorer brethren with it; he next opened his house in great hospitality to the members of the congregation to which he belonged. These expenses speedily placed his cash so extensively in arrear, that he had no hope of recovering the deficiency by any ordinary means, and he then purchased lottery tickets, to a large amount, trusting to a good prize for his restoration to honour and independence. These prizes never came, and the result was, disclosure, disgrace, and misery.

Now, the way to prevent crime, in cases like this, is to avoid presenting temptation to men whose defective moral organs do not enable them to withstand it. Phrenology will certainly come to the assistance of society in this course of proceeding; because it affords the means of determining beforehand whether any great moral deficiency exists; and after the present generation shall have been laid in the grave, the next will not be ashamed to apply it in so beneficial a manner. It is known that, notwithstanding every effort on the part of the chief officers of the post-office in Britain to select honest individuals for that department, numerous depredations take place in it; so that a day never closes, on which one or more capital felonies have not been committed, in abstracting money from letters. I called the attention of Sir Edward Lees, the enlightened secretary of the Edinburgh post-office, to the aid which phrenology might afford toward the remedy of this evil, by enabling the government to select individuals in whom the moral and intellectual organs so decidedly predominate over those of the animal propensities, that they would be free from internal temptations to steal, and of course be more able to resist the external temptations presented by their opportunities to do so. He visited the museum of the Phrenological Society, where I showed him the skulls and busts of many executed criminals, from Europe, Asia, Africa, and America, and enabled him to compare them with the skulls and busts of virtuous men: he acknowledged that the difference was so palpable, that it was impossible to avoid the perception of it.

and that he could not see any sufficient reason why phrenology, if borne out by large experience, should not be applied in this manner; but added, truly, that, being only a subordinate functionary, he had no power to carry so great an innovation into practice.*

The reason I introduce these facts is, to press on your attention the dereliction of social duty which the better constituted members of society continue to commit, while they neglect to use the light which Providence is here presenting to their eyes. If government, or individuals, place men in whom the animal faculties predominate, or in whom the balance between them and the moral powers only hangs in equilibrium, in external circumstances in which temptations are presented to the inferior faculties stronger than they are able to resist, a great portion of the guilt of their offences lies with those who thus expose them to trial; and although the criminal law does not recognise this as guilt, the natural law clearly does so, for it punishes the offenders. The loss, annoyance, and sometimes ruin, which ensue from these depredations, are the chastisements for having placed improper persons in situations for which they were not qualified.

It may appear hard, that these punishments should have been inflicted for so many generations, while men did not possess any adequate means of discriminating natural dispositions, so as to be able to avoid them. This difficulty presents itself in regard to all the natural laws; and the only answer that can be offered is, that it has pleased Providence to constitute man a progressive being, and to subject him to a rigid discipline in his progress to knowledge. Our ancestors suffered and died under the ravages of small-pox, until they discovered vaccination; and we still suffer under cholera, because we have not yet found out its causes and remedies. There are merchants who employ phrenology in the selection of clerks, warehousemen, and other individuals in whom confidence must be placed, and they have reaped the advantages of its lights.

* If the post-office and other public authorities would order accurate casts to be made from the heads of all their servants who are convicted of embezzlement, and compare them with the heads of those who hold the highest character for tried integrity, they would see a difference that would force them to believe in the influence of organization on the mental dispositions.

I may here remark, that the number of really inferior brains is not great; and of all the countless thousands who are intrusted with property, and have the power of appropriating or misapplying it, the number is comparatively small who actually do so. Still, those who do not know how to judge of dispositions from the brain, are left under an habitual uncertainty whether any particular individual, on whose fidelity their fortunes depend, may be found, on some unlucky day, to belong to the inferior order, when they had always regarded him as an example of the highest class.

I repeat, then, that the first step toward *preventing*, and thereby *diminishing*, crimes, is to avoid placing men with inferior brains in external circumstances of temptation, which they are not calculated to resist. The second is, to give every possible vigour to the moral and intellectual faculties, by exercising and instructing them, so as to cast the balance of power and activity in their favour. And the third is, to improve, sedulously as possible, our social institutions, so as to encourage the activity of the higher powers, and diminish that of the inferior faculties, in all the members of society.

The next question to be considered is, How ought men, having brains of this middle class, to be treated *after they have yielded to temptation*, infringed the law, and been convicted of crime? The established method is, to confine them before trial in crowded prisons, in utter idleness, and in the society of criminals like themselves; and after trial and condemnation, to continue them in the same society, with the addition of labour; to transport them to New South Wales, or to hang them. In no aspect of European and Christian society are there more striking marks of a still lingering barbarism, than in this treatment of criminals. In almost no other institutions of society are there more glaring indications of an utter want of the philosophy of mind, than in the prisons of Britain.* But let us descend to particulars.

We have seen that men of the middle class (and they are by far the most numerous of all the criminals) are led

* The text was written in 1835-6, and an improvement has since taken place in the management of British prisons. A prison act has been passed, appointing Boards for the direction of prisons in Scotland, and Mr. Frederick Hill, a gentleman distinguished for humanity and intelligence, has been named Inspector of them

into crime in consequence of the ascendency, for the time, of their animal propensities; but that, nevertheless, they possess, to a considerable extent, also moral sentiments and intellect. In treating them as criminals, we may have various objects in view. First; our object may be revenge, or the desire to inflict suffering on them because they have made society suffer. This is the feeling of savages, and of all rude and naturally cruel minds; and if we avow this as our principle of action, and carry it consistently into effect, we should erect instruments of torture, and put our criminals to a cruel and lingering death. But the national mind is humanized far beyond the toleration of this practice. I humbly think, however, that as we profess to be so, we ought utterly and completely to discard the principle of vengeance from our treatment, as unchristian, unphilosophical, and inexpedient, and not to allow it to mingle covertly, as I fear it still does, with our views of criminal legislation.

Or, secondly, our object may be, by inflicting suffering on criminals, to deter other men from offending. This is the general and popular notion of the great end of punishment; and when applied to men of the middle class of faculties, it is not without foundation. Individuals who are strongly solicited by their animal propensities, and have a very great deficiency of the moral and intellectual faculties—that is to say, criminals of the lowest grade of brain—are not alive even to the fear of suffering; and the terror of punishment scarcely operates on them. You will find them committing capital felonies, while they are attending the execution of their previous associates for similar offences. It appears to me, that even the terror of punishment scarcely produces an appreciable effect on the conduct of this class of men; and some persons, drawing their observations from this class alone, have concluded, as a general rule, that suffering inflicted on one offender does not deter any other individuals from committing crime. But I respectfully differ from this opinion. Wherever the organs of the moral and reflecting faculties possess considerable developement, example does produce some effect; and the higher the moral and intellectual faculties rise in power, the more completely efficacious does it become. What one of us would not feel it as an enormous evil, to be dragged to prison; to be locked up, night and day, in the society of the basest of mankind; to be publicly tried at the bar of a criminal court, and subse-

quently transported as a felon to a distant colony? Most of us instinctively feel that death itself, in an honourable form, would be perfect bliss, compared with such a fate. If, therefore, any of us ever felt, for a moment, tempted to infringe the criminal law, unquestionably the contemplation of such appalling consequences of guilt would operate, to a considerable extent, in studying the steps of virtue. But the error is very great, of supposing that all men are constituted with such nice moral sensibilities as these. Superior minds feel in this manner, solely because their moral and intellectual organs are large; and the same feelings do not operate, to the same extent, in the case of men possessing inferior brains.

Laws have been enacted, in general, by men possessing the best class of brains, and they have erroneously imagined that mere punishment would have the same effect on all other individuals as it would have on themselves. While, therefore, I consider it certain, that the fear of punishment *does operate* beneficially on the waverers, I regard its influence as much more limited than is generally believed. In proportion to the talent of a man who has a tendency to commit crime, will be his power of anticipating the consequences of detection; but in the same proportion will be his capacity of eluding them, by superior address in his criminal acts, and thus there is a counteracting influence even in the possession of intellect. The faculty chiefly addressed by the prospect of punishment is Fear, or Cautiousness; and although, in some men, this is a powerful sentiment, yet, in many, the organ is deficient, and there is little consciousness of the feeling.

On the whole, therefore, the conclusion at which I arrive on this point is, that the condition of convicted criminals should be such as should be felt to be a very serious abridgment of the enjoyments of moral and industrious men; and this it must necessarily be, even under the most improved method of treating them; but I do not consider it advisable that one pang of suffering should be added to their lot for the sake of deterring others, if that pang be not calculated to prove beneficial to themselves.

Thirdly, our object in criminal legislation may be, at once to protect society by example, and to reform the offenders themselves. This appears to me to be the real and legitimate object of the criminal law in a Christian coun-

try, and the question arises, How may it best be accomplished?

A condemned criminal is necessarily an individual who has been convicted of abusing his animal propensities, and thereby inflicting evil on society. He has proved, by his conduct, that his moral and intellectual powers do not possess sufficient energy, in all circumstances, to restrain his propensities. Restraint, therefore, must be supplied by external means; in other words, he must, both for his own sake and for that of society, be taken possession of, and prevented from doing mischief; he must be confined. Now, this first step of discipline itself affords a strong inducement to waverers to avoid crime, because, to the idle and dissolute, the lovers of ease and pleasure, confinement is a sore evil; one which they dread more than a severe but shorter infliction of pain. This measure is recommended, therefore, by three important considerations—that it serves to protect society, to reform the criminal, and to deter other men from offending.

The next question that occurs is, How should the criminal be treated under confinement? The moment we understand his mental constitution and condition, the answer becomes obvious. Our object is to abate the activity of his animal propensities, and to increase the activity and energy of his moral and intellectual faculties. The first step in allaying the activity of the propensities is, to withdraw every object and communication that tends to excite them. The most powerfully exciting causes to crime are idleness, intoxication, and the society of immoral associates. In our British jails criminals in general are utterly idle; they are crowded together, and live habitually in the society of each other; intoxication being the only stimulus that is withdrawn. If I wished to invent a school or college for training men to become habitual criminals, I could not imagine an institution more perfect for the purpose than one of our jails Men, and often boys, in whom the propensities are naturally strong, are left in complete idleness, so that their strongest and lowest faculties may enjoy ample leisure to luxuriate; and they are placed in each other's society, so that their polluted minds may more effectually avail themselves of their leisure in communicating their experience to each other, and cultivating, by example and precept, the propensities into increased energy and more extensive activity

The proper treatment would be to separate them, as much as possible, from each other; and while they are in each other's society, to prevent them, by the most vigilant superintendence, from communicating immoral ideas and impressions to each other's minds. In the next place, they should be all regularly employed; because nothing tends more directly to subdue the inordinate activity of the animal propensities than labour. It occupies the mind, and physiologically it drains off, by the muscles, from the brain, the nervous energy, which, in the case of the criminals, is expended by their large organs of the propensities. The greater the number of the higher faculties that the labour can be made to stimulate, the more beneficial it will be. Mounting the steps of a treadmill exercises merely the muscles, and acts on the mind by exhausting the nervous energy and producing the feeling of fatigue. It does not excite a single moral or intellectual faculty. Working as a weaver or shoemaker would employ more of the intellectual powers; the occupations of a carpenter or black-smith are still more ingenious; while that of a machine-maker stands higher still in the scale of mental requirement. Many criminals are so deficient in intellect, that they are not capable of engaging in ingenious employments; but my proposition is, that, wherever they do enjoy intellectual talent, the more effectually it is drawn out, cultivated, and applied to useful purposes, the more will their powers of self-guidance and control be increased.

Supposing the quiescence of the animal propensities to be secured by restraint and by labour, the next object obviously is, to impart vigour to their moral and intellectual faculties, so that they may be rendered capable of mingling with society at a future period, without relapsing into crime. The moral and intellectual faculties can be cultivated only by addressing to them their natural objects, and exercising them in their legitimate fields. If any relative of ours possessed an average developement of the bones and muscles of the legs, yet had, through sheer indolence, lost the use of them and become incapable of walking, should we act wisely, with a view to his recovery, in fixing him into an arm-chair, from which it was impossible for him to rise? Yet, when we lock up criminals in prison, amid beings who never give expression to a moral emotion without its becoming a subject of ridicule; when we exclude from their

society all moral and intelligent men calculated to rouse and exercise their higher faculties; and when we provide no efficient means for their instruction; do we not in fact as effectually deprive all their superior powers of the means of exercise and improvement, as we would do the patient with feeble legs, by pinioning him down into a chair? All this must be reversed. Effectual means must be provided for instructing criminals in duty and knowledge, and for exercising their moral and intellectual faculties. This can be done only by greatly increasing the numbers of higher minds that hold communion with them, and by encouraging them to read and to exercise all their best powers in every practicable manner. The influence of visiters in jails, in meliorating the character of criminals, is explicable on such grounds. The individuals who undertake this duty are, in general, prompted to it by the vivacity of their own moral feelings; and the manifestation of these toward the criminals excites the corresponding faculties in them into action. On the same principle, on which the presence of profligate associates cultivates and strengthens the propensities, does the society of virtuous men excite and strengthen the moral powers.

By this treatment the offender would be restored to society with his inferior feelings tamed, his higher powers invigorated, his understanding enlightened, and his whole mind and body trained to industrious habits. If this would not afford society a more effectual protection against his future crimes, and be more in consonance with the dictates of Christianity than our present treatment, I stand condemned as a vain theorist; but if it would have these blessed effects, I humbly entreat of you to assist me in subduing that spirit of ignorance and dogmatism which represents these views as dangerous to religion and injurious to society, and presents every obstacle to their practical adoption.*

* The prisons in the United States of America are conducted in a manner greatly superior to those of Great Britain and Ireland; but even they admit of improvement. I shall add some remarks on them to the next lecture.

During my residence in the United States, from 1838 to 1840, an extraordinary number of instances of frauds, committed by men holding high official situations, were announced in the public prints, and a vast extent of individual suffering

LECTURE XIV.

DUTY OF SOCIETY IN REGARD TO THE TREATMENT OF CRIMINALS.

The punishment of criminals proceeds too much on the principle of revenge—Consequences of this error—The proper objects are the protection of society, and the reformation of the criminal—Means of accomplishing these ends—Confinement in a penitentiary till the offender is rendered capable of good conduct—Experience of the corrupting effects of short periods of imprisonment in Glasgow bridewell—Proposed conditions of liberation—Failure of the treadmill —American penitentaries—Wherein imperfect—Punishment of death may ultimately be abolished—Harmony of the proposed system of criminal legislation with Christianity—Execution of criminals—Transportation—Farther particulars respecting American prisons—Cerebral and mental qualities of criminals there confined—Some of them incorrigible—Objection as to destruction of human responsibility answered—Class of criminals susceptible of reformation—Means of effecting this—Results of solitary confinement considered—Silent labour system at Auburn.

I PROCEED to consider the duty of the highest class of minds—or that comprising individuals in whom the moral and intellectual organs decidedly predominate over those of the inferior propensities—in regard to criminal legislation and prison-discipline. This class has received from Providence ample moral and intellectual powers, with as much of the lower elements of our nature as are necessary for their well-being in their present sphere of existence, but not so much as to hurry them into crime. Such individuals, therefore, have a great deal of power committed to them by the Creator, and we may be permitted to presume that he will hold them responsible for the use which they make of it. I regret to observe, that, through lack of knowledge, this class has hitherto fallen far short of their duty in the treatment of criminals. In my last lecture I remarked, that, as revenge is disavowed by Christianity, and condemned also by the moral law of nature, we should exclude

was the consequence. Such occurrences reflect disgrace on the society under whose institutions they so extensively prevail. The remarks on p. 260 are still more applicable to the United States than even to Britain.

it entirely, as a principle, in our treatment of criminals ; but that, nevertheless, it may be detected mingling, more or less, with many of our criminal regulations. I proceed to illustrate this position, and to point out the baneful consequences which ensue.

In committing men to prisons in which they shall be doomed to idleness—in compelling them to associate, night and day, with each other (which is the most effectual method of eradicating any portion of moral feeling left unimpaired in their minds)—and in omitting to provide instruction for them—society seems, without intending it, to proceed almost exclusively on the principle of revenge. Such treatment may be painful, but it is clearly not beneficial to the criminals ; and yet pain, deliberately inflicted, without benefit to the sufferer, is simply vengeance. Perhaps it may be thought that this treatment will serve to render imprisonment more terrible, and thereby increase its efficacy as a means of deterring other men from offending. No doubt it will render it very terrible to virtuous men—to individuals of the highest class of natural dispositions—because nothing *could* be more horrible to them than to be confined in idleness, amid vicious, debased, and profligate associates ; but this is not the class on whom prisons are intended to operate as objects of terror : these men have few temptations to become criminals. Those to whom prisons should be rendered formidable, are the lovers of pleasure, men enamoured of an easy dissolute life enlivened with animal excitement, not oppressed with labour, and not saddened by care, reflection, or moral restraint. Now, our prisons, as at present conducted, are not formidable to such characters. They promise them idleness, the absence of care, and the stimulus of profligate society. On this class of minds, therefore, they lose, in a great degree, the character of objects of terror and aversion ; undeniably they are *not* schools of reform ; and they therefore have no recognisable feature so strongly marked on them as that of instruments of vengeance, or means employed by the higher minds for inflicting on their inferior brethren what, judging from their own feelings, they intend to be a terrible retribution, but which these lower characters, from the difference of their feelings, find to be no formidable punishment at all. Thus, through sheer ignorance of human nature, the one class goes on indulging its revenge, in the vain belief that it is deterring offenders ;

while the other class proceeds in its career of crime, in nearly utter disregard of the measures adopted to deter it from iniquity; and at this day, our whole measures are as far from being crowned with success as they were a century ago.

If any class deserve punishment for these proceedings, I would be disposed to inflict it on the higher class, or on the men to whom a bountiful Creator has given judgment to understand, and moral sentiments to feel, the obligations of duty, and thereby ample ability to reclaim from vice and crime their less fortunate brethren, but who, through ignorance, and the helplessness that accompanies it, leave this great duty undischarged. In point of fact, the natural law does punish them, and will continue to punish them until they discharge their duty as rational men and Christians. If we reckon up the cost, in the destruction of life and property, expenses of maintaining criminal officers, courts of justice, and executioners—and the pangs of sorrow, flowing not only from pecuniary loss, but from disgrace sustained by the relatives of profligate offenders—we may regard the sum-total as the penalty which the virtuous pay for their blind neglect of the rational principles of criminal legislation. If the sums thus expended were collected, and applied, under the guidance of enlightened judgment, to the construction and proper appointment of penitentiaries, one or more for each large district of the country, and if offenders were committed to them for reformation, it is probable that the total loss to society would not be greater than that of the present system, while the advantages would unspeakably exceed those which now exist.

In regard to the treatment of criminals when placed in such penitentiaries, I have already remarked, that, in the sentences pronounced under the present system, the principle chiefly, although unintentionally, acted on by the superior class of society appears to be revenge. If a boy rob a till of a few pence, he is sentenced to eight days' imprisonment in jail; that is, to eight days' idleness, passed in the society of accomplished thieves and profligate blackguards, at the end of which space he is liberated. Here the quantity of punishment measured out almost seems to be regulated by the principle, that the eight days' confinement causes a quantity of suffering equal to a fair vengeance for robbing the till. If a female steal clothes from a hedge, she is sentenced

to sixty days' confinement in bridewell, where she is forced to work, in the society of ten or a dozen profligates like herself, during the day, and is locked up alone during the night At the end of the sixty days she is liberated, and turned adrift on society. If a man commit a more extensive theft, he is committed to bridewell for three months, or perhaps transported; the term of confinement and the period of transportation bearing a uniform and, as far as possible, a supposed just relation to the magnitude of the offence. The intention of this treatment is to cause a quantum of suffering sufficient to deter the criminal from repeatnig the offence, and others from committing similiar transgressions; but we shall inquire whether these effects follow.

If we renounce, altogether, the principle of vengeance as unchristian, we shall still have other two principles remaining as guides to our steps: first, that of protecting society; and, secondly, that of reforming the offender.

The principle of protecting society authorizes us to do everything that is necessary to accomplish this end, under the single qualification that we shall adopt that method which is most beneficial for society, and least injurious to the criminal. If, as I have contended, the world be really constituted on the principle of the supremacy of the moral sentiments, we shall find, that whatever measures serve best to protect society, will also be most beneficial for the offender, and *vice versa*. In the view, then, of protecting society, any individual who has been convicted of infringing the criminal law, should be handed over as a moral patient to the managers of a well-regulated penitentiary, to be confined in it, not until he shall have endured a certain quantity of suffering, equal in magnitude to what is supposed to be a fair revenge for his offence, but until such a change shall have been effected in his mental condition, as may afford society a reasonable guaranty that he will not commit fresh crimes when he is set at large. It is obvious that this course of procedure would be humanity itself to the offender, compared with the present system, while it would unspeakably benefit society. It would convert our prisons from houses of vengeance and of corruption into schools of reform. It would require however, an entire change in the principles on which they are conducted.

The views which I have expounded in this and the pre-

ceding lecture are strongly elucidated and confirmed by a report of the state of the Glasgow bridewell in 1826, which I obtained from Mr. Brebner, the very enlightened and truly humane superintendent of that establishment :

State of Crimes and Offences.

	Year ending 31st Dec. 1825.			Year ending 31st Dec. 1826.		
	Males.	Females.	Total.	Males.	Females.	Total.
Commitments during the year, - - - - -	558	703	1261	688	713	1401
Deduct recommitments of same individuals in the currency of the year, -	101	279	380	124	281	405
Remains nett number of different persons, - - -	457	424	881	564	432	996
Whereof in custody for the first time, - - - - -	360	209	569	444	189	633
Old offenders, - - - -	97	215	312	120	243	363

Mr. Brebner has observed that offenders committed for *the first time*, for only a short period, almost invariably return to bridewell for new offences ; but if committed for a long period, they return less frequently. This fact is established by the following table, framed on an average of ten years, ending 25th December, 1825.

Of prisoners sentenced for *the first time* to fourteen days' confinement, there returned under sentence for new crimes about 75 per cent.

30	days'	confinement,	about	60 do
40	do	do	do	50 do
60	do	do	do	40 do
3	months'	do	do	25 do
6	do	do	do	10 do
9	do	do	do	7½ do
12	do	do	do	4 do
18	do	do	do	1 do
24	do	do	do	none.

During the ten years, ninety-three persons were committed for the first time for two years, of whom not one returned.

Mr. Brebner remarked, that when prisoners come back to bridewell two or three times, they go on returning at intervals for years. He has observed that a good many prisoners committed for short periods for first offences, are afterward tried before the High Court of Justiciary, and transported or hanged.

Judging from the ultimate effect, we here discover that the individuals who for some petty offence are committed to bridewell for the first time, for only fourteen days, are in reality more severely punished than those who, for some more grave infringement of the law, are sentenced at first to two years' imprisonment; nay, the ultimate result to the petty delinquent would have been far more beneficial if, for his trifling offence, he had been sentenced to two years' confinement instead of fourteen days. The sentence of fourteen days' imprisonment merely destroyed his moral sensibilities, (if he had any,) initiated him in the knowledge of the mysteries of a prison, introduced him to accomplished thieves, and enabled him to profit by their instruction; and, when thus deteriorated, and also deprived of all remnants of character, it turned him loose again into the world, unprotected and unprovided for, leaving him to commit new crimes and to undergo new punishments, (which we see by the table he rarely failed to do,) until, by gradual corruption, he was ultimately prepared for transportation or the gallows Of the delinquents sentenced to only fourteen days' confinement for their first offence, seventy-five per cent., or three-fourths of the whole, returned for new crimes. On the other hand, the training, discipline, and meliorating effect of a confinement for two years, for the first offence, seems to have been so efficacious, that not one individual who had been subjected to it, returned again to the same prison as a criminal.* This proves that, looking to the ultimate welfare of the individuals themselves, as well as to the interests of society, there is far greater *humanity* in a sentence for a first offence, that shall *reform* the culprit,

* Mr. Brebner mentioned that he did not believe that *all* of these individuals were completely reclaimed; but that they had received such impressions of Glasgow prison-discipline, that, if disposed to return to crime, they sought out a new field of action.

although the *offence itself* may be small and the *confinement long*, than in one decreeing punishment for a few days only, proportional solely to the *amount of the crime.*

If the humane principles which I now advocate shall ever be adopted, (and I feel confident that they will,) the sentence of the criminal judge, on conviction of a crime, would simply be one finding that the individual had committed a certain offence, and was not fit to live at large in society; and therefore granting warrant for his transmission to a penitentiary, to be there confined, instructed, and employed, until liberated in due course of law. The process of liberation would then become the one of the greatest importance. There should be official inspectors of penitentiaries, invested with some of the powers of a court, sitting at regular intervals, and proceeding according to fixed rules. They should be authorized to receive applications for liberation at all their sessions, and to grant the prayer of them, on being satisfied that such a thorough change had been effected in the mental condition of the prisoner, that he might safely be permitted to resume his place in society. Until this conviction was produced, upon examination of his dispositions, of his attainments in knowledge, of his acquired skill in some useful employment, of his habits of industry, and, in short, of his general qualifications to provide for his own support, to restrain his animal propensities from committing abuses, and to act the part of a useful citizen, he should be retained as an inmate of the prison. Perhaps some individuals, whose dispositions appeared favourable to reformation, might be liberated at an earlier period, on sufficient security, under bond, given by responsible relatives or friends, for the discharge of the same duties toward them in private, which the officers of the penitentiary would discharge in public. For example, if a youth were to commit such an offence as would subject him, according to the present system of criminal legislation, to two or three months' confinement in bridewell, he might be handed over to individuals of undoubtedly good character and substance, under a bond that they should be answerable for his proper education, employment, and reformation; and fulfilment of this obligation should be very rigidly enforced. The principle of revenge being disavowed and abandoned, there could be no harm in following any mode of treatment, whether private or public, that should be adequate to the

accomplishment of the other two objects of criminal legislation—the protection of society and the reformation of the offender. To prevent abuses of this practice, the public authorities should carefully ascertain that the natural qualities of the offender admitted of adequate improvement by private treatment; and secondly, that private discipline was actually administered. If any offender liberated on bond should ever reappear as a criminal, the penalty should be inexorably enforced, and the culprit should never again be liberated, except upon a verdict finding that his reformation had been completed by a proper term of training in a penitentiary.

If such a system were adopted, it would be of the utmost importance to have a sound and serviceable philosophy of mind, to guide the footsteps of judges, managers, inspectors, liberating officers, and criminals themselves; because, without such a philosophy, the treatment would be empirical, the results unsatisfactory, and the public disappointment great. Phrenology appears to me to be such a philosophy, and, when judiciously applied, I have every expectation that it will be found adequate to the object.

If, keeping the principles which I have explained in view, you read attentively the various systems of prison-discipline which have been tried, you will discover in all of them some glaring defect in one essential particular or another, and perceive that their success has been great or small in proportion as they have approached to, or receded from, these principles. A few years ago, there was a rage for treadmills in prisons; these were expected to accomplish great effects. The phrenologist laughed at the idea and predicted its failure, for the simplest reasons: Crime proceeds from over-active propensities and under-active moral sentiments; and all that the treadmill could boast of accomplishing, was, to fatigue the muscles of the body, leaving the propensities and moral sentiments exactly in the same condition, after the fatigue was removed by rest, as that in which they had been before it was inflicted. The advocates of the treadmill proceeded on the theory, that the irksomeness of the labour would terrify the offenders so much, that, if they had once undergone it, they would refrain from crime during their whole lives, to avoid encountering it again. This notion, however, was without sufficient foundation. The labour, although painful at the time, did not, in the least,

remove the *causes* of crime; and after the pain had ceased, these continued to operate, offences were repeated, and treadmills have now fallen considerably into disrepute.

In America various improved systems of prison-discipline have been practised. "In the prisons of Auburn and Sing-Sing, in the state of New York, and at Weathersfield, in the state of Connecticut, the system which has been adopted is that combining solitary confinement at night, hard labour by day, the strict observance of silence, and attention to moral and religious improvement. At sunrise the convicts proceed in regular order to the several work-shops, where they remain under vigilant superintendence until the hour of breakfast, when they repair to the common hall. When at their meals, the prisoners are seated at tables in single rows, with their backs toward the centre, so that there can be no interchange of signs. From one end of the work-rooms to the other, upward of five hundred convicts may be seen without a single individual being observed to turn his head toward a visiter. Not a whisper is heard throughout the apartments. At the close of day labour is suspended, and the prisoners return in military order to their solitary cells, there they have the opportunity of reading the scriptures, and of reflecting in silence on their past lives. The chaplain occasionally visits the cells, instructing the ignorant, and administering the reproofs and consolations of religion. The influence of these visits is described to be most beneficial; and the effect of the entire discipline is decidedly successful in the prevention of crime, both by the dread which the imprisonment inspires, and by the reformation of the offender. Inquiries have been instituted, relative to the conduct of prisoners released from Auburn penitentiary —the prison in which this system has been longest observed —and of two hundred and six discharged, who have been watched over for the space of three years, one hundred and forty-six have been reclaimed, and maintained reputable characters in society."*

This is obviously a great improvement on British prisons, but still it is not perfect. Too little is done with the view of calling forth the moral and intellectual faculties of the prisoners, and the terror of punishment seems to be too much relied on. It appears that of the two hundred and six here mentioned as discharged, sixty have resumed criminal habits.

* Simpson on Popular Education, p. 274. First Edition.

It would be interesting to know how many of these individuals possessed brains of the lowest class, or were so deficient in the moral and intellectual organs as scarcely to be reclaimable by any treatment; and how many had brains of the middle class. Without knowing this, it is impossible to judge to what extent the treatment is really effectual in reforming all who are capable of reformation.

It follows from these principles, that the punishment of death may be ultimately abolished. The committee of the the Prison-Discipline Society of London, in their eighth Report, "Declare their conviction that an effectual substitute may be found for the penalty of death in a well regulated system of penitentiary discipline; a system which shall inspire dread, not by intensity of punishment, but by unremitted occupation, seclusion, and restraint. The enforcement of hard labour, strict silence, and a judicious plan of solitary confinement, will be found the most powerful of all moral instruments for the correction of the guilty; and when to these is added the application of religious instruction, the utmost means are exercised which society can employ for the punishment and reformation of human character."

In the British and Foreign Quarterly Review for February, 1836, there is an article entitled "Moral Statistics," which affords much curious information as to the management of prisons in France, and the character of the prisoners. The prisoners are remarkable for an indifference about human life. They fear neither to give nor to receive death. A prisoner, when the judge was summing up the evidence against him, exclaimed, "Get on, Mr. President; you tire me. Everything that you say is true. I killed the man, put *me* to death; but do not fatigue me with so many words!" The London Courier of 2d February, 1836, remarks—"Whatever may be its cause, there can be no doubt that the population, at least of Paris, are careless of the lives of others, and of their own. On such a population, inflicting the punishment of death can only serve, by its example, to nourish the regardlessness of life. Over their minds it can have no salutary influence; and as long as its beneficial effects are doubtful, it is only prudent to take the safe side, and cease to inflict it. The government has humanely taken that course; at least, it has left in the hands of the jury to decide, if there are extenuating circumstances attending even the crime of murder; and the con-

sequence is, that the number of executions is rapidly decreasing. By such a step it has, we hope, gone in advance of the age ; and we should anticipate that its own avowed care and tenderness of the lives, even of criminals, will have the salutary effect of begetting a tenderness for life, and a greater desire to preserve it, than now prevail in the mass of the population of France."

It is gratifying to know that the same humane principles are prevailing with our own government, and that capital punishment is less and less resorted to, with much benefit to society. Whenever the principles which I am now advocating come to be practically adopted, capital punishment will be unnecessary. I state from a pretty extensive observation, that it is only the lowest class of minds that are prone to commit desperately wicked and outrageous crimes, and they very rarely arrive at them as their first step in turpitude. They fall into the hands of justice first for minor offences ; and if they were then treated according to their nature and mental condition, they would not have opportunities afterward of committing atrocious actions. If the brains of any of them be so very deficient in the moral and intellectual organs, that thorough reformation is hopeless, they should be detained as moral patients for life. If they be capable of amendment, they should be set at liberty only after reasonable security has been obtained for subsequent good conduct, by subjecting them to salutary discipline and instruction.

In leaving the subject, I solicit your attention for a moment to the harmony between this whole system of criminal legislation and the precepts of Christianity. We are told to love our neighbour as ourselves : now, if we were conscious of immoral dispositions, which threatened to bring us into misery through crime, in our cool moments of reflection we should bless the hand that would arrest and reclaim us as here recommended. Again, we are commanded to forgive injuries ; to return good for evil ; and to love even our enemies. In this whole scheme there is not a particle of resentment or revenge ; there is no retribution for the injuries committed, but good is returned for evil ; that is to say, measures of moral reformation are put in practice toward the offender as the return for the injury he has done to society. Suffering to him will attend the use of these means, but it is not inflicted by society designedly as punishment ; it is the chastisement appointed by the Creator under the

natural laws; it is the pain which the wicked feel in being stripped of their vices; but it is doubly compensated by the pure enjoyment which ultimately accompanies a reformed mind. Finally—If criminals be the great enemies of their own welfare, is there a more effectual method of loving them, than by reforming them, and restoring them to the dignity and happiness of virtue?

I believe that the great obstacle to improvement has been the want of knowledge, and not the want of will. The character of criminals appeared to be an inexplicable enigma, and the wisest of men did not know how to deal with them. They tried, perhaps, a particular method of treatment, and it succeeded with some, had no effect on others, and rendered a third class worse; and it was then abandoned; another plan was followed, and with similar results. Among other experiments, the effect of extensive executions was tried. Within my recollection the favourite maxim was, that, to prevent crime, it was necessary to render the law terrible, and punishment certain; and, under this notion, almost every man convicted of theft, robbery, forgery, or murder, was hanged. In London ten and a dozen human beings were frequently executed at once, and this was repeated several times a year. In Edinburgh the execution of two or three individuals at a time was not uncommon, and the executions recurred to a greater or less extent every few months. This practice was found not to be successful; and transportation to New South Wales was then more extensively resorted to.

This mode of punishment does not imbody one element of reason in its conception from beginning to end. The convicts are confined in the society of each other before transportation; they are sent on a long voyage utterly idle, and also in each other's society; and when they are landed, they are delivered over, without any moral or intellectual instruction, to the free settlers in that colony, as bonded servants. Their nature not being changed, many of them rob and murder their masters whenever opportunities occur. This has been discovered to be an unsuccessful method of repressing crime, and many voices have already been raised against it. It is injurious to the moral, although many persons think it beneficial to the pecuniary, interests of the colony, by providing labour. As the qualities of the brain, like the features and expression of the face, descend to the

children of the convicts, their immoral dispositions are thereby ingrafted into the constitution of the future population; and deliberate preparation is made for calling into existence a long succession of individuals afflicted with unfavourably constituted brains and immoral dispositions. Lord Bacon, even in his day, denounced the practice of transporting criminals to colonies as extremely immoral and injurious, on this very account. Lately, much attention has been paid to penitentiaries, and government has sent commissioners to the United States of America, to study and report on the management of the most successful prisons in that country, with a view to improve our own. I do not expect that either the Americans or our lawgivers will succeed until they avail themselves of the lights afforded by the physiology of the brain. The same modes of treatment will not suit men whose brains and dispositions are very differently constituted; and until legislators shall condescend to take the brain as an index to natural dispositions, they will never know, with reasonable certainty, to what individuals to apply one kind of treatment, and to whom to administer another; yet, until they *shall* know how to do this, and how to adapt their discipline to the natures of the different men with whom they are dealing, success will be impossible. The great importance of this subject I trust will plead my apology for detaining you so long with the consideration of it. If you see truth in any of the views which I have expounded, I again respectfully, but earnestly, solicit you to support and to diffuse a knowledge of them in your respective circles in society, because it is only by the exertions of many that prejudice can be overcome, and truth be rendered ultimately triumphant.

Postscript to the preceding Lecture.—Since the preceding lecture was delivered in Edinburgh, I have personally visited the state-prisons at Boston; at Blackwell's Island and Auburn, in the state of New York; the Eastern penitentiary and the Moyamensing prison, of Philadelphia; and the state-prison at Weathersfield, Connecticut. I cheerfully testify to their great superiority over the vast majority of British prisons, but I am still humbly of opinion that the discipline even in them proceeds on an imperfect knowledge of the nature of the individuals who are confined and punished in them.

There is a wide difference between the natural mental constitution of most criminals and that of men virtuously disposed. I have accompanied several American citizens, of great intelligence and high social consideration, to these prisons, and enabled them to observe that the inmates of them, generally, are deficient in the organs of the moral sentiments, and largely endowed with the organs of the animal propensities; and that from this combination they are naturally predisposed to crime. The intellectual organs are possessed by them in various degrees; but extensive observation has convinced me that the intellectual powers are not sufficient to guide strong animal propensities to virtue, unless they be aided by vigorous moral sentiments.

The criminal law does not inquire into the *causes* which give rise to crime. The trial ascertains merely the *fact* that a crime has been committed, and the sentence is simply the announcement of a certain extent of punishment which must be suffered by the offender. No inquiry is made into the *effect* of the punishment on the peculiar mental constitution of the individual. Until legislators shall proceed on a sound knowledge of both the causes of crime and the effect of punishment, they will err, and prove unsuccessful. In reference to prison-discipline in the United States, I shall notice two classes of persons, which comprise nearly the whole of the inmates of the prisons.

The first class is composed of those in whom the animal organs are large, and those of the moral sentiments and intellectual powers are deficient. I regard the individuals of this class as moral patients, incapable of conducting themselves virtuously when left to the impulses of their own faculties, amid the ordinary temptations of society. I have put the question solemnly to the keepers of prisons, whether they believed in the possibility of reforming all offenders; and from those whose minds were most humane and penetrating, I have received the answer that they did not, and that experience had convinced them that some criminals are incorrigible by any human means hitherto discovered. These incorrigibles, when pointed out to me, were always found to have the defective organization now described. Their number is not large; they are morally idiotic; and justice, as well as humanity, dictates that they should be treated as moral patients. They labour under great natural mental defects, and it is no more either just or beneficial to society

to punish them for actions proceeding from these natural defects, than it would be to punish men for having crooked spines or club feet. It is true that their actions are injurious to society; but they cannot help their actions; and, therefore, while society has an undoubted right to restrain them during life, as incorrigible beings disposed continually to evil, it is bound to treat them with humanity; that is to say, to give them employment, food, clothing, and comfortable lodging, with as much liberty as they can enjoy without abusing it, and no more.

The American criminal law does not recognise the existence of this class of men, and makes no provision for their custody for life. The humane and enlightened superintendents of prisons, both in Britain and in the United States, have expressed to me regret that no such provision exists.

Religious persons, as noticed in one of the previous lectures, object to this view, on the ground that it destroys human responsibility. I respectfully remind them, that they admit the non-responsibility of idiots in intellect, and of madmen, although mischievous; and treat both, when they infringe the criminal law, as patients, and not as culprits. I merely extend this class of cases a little farther; and the maxim is certainly just, that *major aut minus non variat speciem.* If these objectors will inquire into facts, they will find irresistible evidence of the *truth* of what I advance regarding the mental condition of these persons. I repeat that their number is not large: and maintain that, if we act consistently, we must either include them among the insane, or include the vicious insane among criminals.

I have asked these objectors if they would receive into their families, as domestic servants, or into their employment in stores, convicts who had served out their time in state-prisons, supposing them qualified by knowledge for the duties of these stations; and most of them have answered that they would not. On being asked why they would decline, they have generally replied that they had not sufficient confidence in their reformation. There is great inconsistency in such conduct. If they believe that every individual has power to reform himself, and that the prison is wisely framed to effect this reform, it is cruel to assume that the individual in question is not reformed, and to exclude him from social comfort and honour on this assumption. The truth is, they *act* on the principle that some criminals are incorrigible, and

that this may be one of the number: and therefore decline placing trust in any. Yet they blame us for teaching the same doctrine, and founding on it a better practice.

The next class of criminals consists of those individuals in whom the animal organs are large, but in whom the moral and intellectual organs also are tolerably well developed. In favourable circumstances, they are capable of being restrained from crime; for moral and intellectual influences operate on them successfully.

The treatment of this class will be proper, in the exact degree in which it improves and strengthens the moral and intellectual powers, and weakens the animal feelings.

In order to weaken the animal propensities, it is necessary to withdraw from them every exciting influence. The discipline of the American state-prisons, in which intoxicating liquors are completely excluded, in which the convicts are prevented from conversing with each other, in which each one sleeps in a separate cell, and in which regular habits and hard labour are enforced, appears to me to be well calculated to accomplish this end.

But this is only the first step in the process which must be completed, before the convict can be restored to society, with the prospect of living in it as a virtuous man. The second is, to invigorate and enlighten the moral and intellectual powers to such an extent, that he, when liberated, shall be able to restrain his own propensities, amid the usual temptations presented by the social condition.

There is only one way of strengthening faculties, and that is by exercising them; and all the American prisons which I have seen are lamentably deficient in arrangements for exercising the moral and intellectual faculties of their inmates. During the hours of labour, no advance can be made, beyond learning a trade. This is a valuable addition to a convict's means of reformation; but it is not all-sufficient. After the hours of labour, he is locked up in solitude; and I doubt much if he can read, for want of light; but assuming that he can—reading is a very imperfect means of strengthening the moral powers. They must be exercised, trained, and habituated to action. My humble opinion is, that in prisons there should be a teacher, of high moral and intellectual power, for every eight or ten convicts; that, after the close of labour, these instructors should commence a system of vigorous culture of the superior faculties of the

prisoners, excite their moral and religious feelings, and instruct their understandings. In proportion as the prisoner gives proofs of moral and intellectual advancement, they should be indulged with the liberty of social converse and action, for a certain time on each week-day, and on Sundays, in presence of the teachers; and in these *converzationes*, or evening parties, they should be trained to the *use* of their higher powers, and habituated to restrain their propensities. Every indication of over-active propensity should be visited by a restriction of liberty and enjoyment; while these advantages, and also respectful treatment and moral consideration, should be increased in exact proportion to the advancement of the convicts in morality and understanding. By such means, if by any, the convicts would be prepared to enter society with their higher faculties so trained and invigorated, as to give them a chance of resisting temptation, and continuing in the paths of virtue.

In no country has the idea yet been carried into effect, that in order to produce moral fruits, it is necessary to put into action moral influences, great and powerful in proportion to the *barrenness* of the soil from which they are expected to spring.

A difference of opinion exists among intelligent persons, whether the system of solitary confinement and solitary labour, pursued in the Eastern penitentiary of Pennsylvania, or the system followed in Auburn, of social labour, in silence, enforced by inspectors, and solitary confinement after working-hours, is more conducive to the ends of criminal legislation. The principles now stated lead to the following conclusions:

The system of entire solitude weakens the whole nervous system. It withdraws external excitement from the animal propensities, but it operates in the same manner on the organs of the moral and intellectual faculties. Social life is to these powers, what an open field is to the muscles; it is their theatre of action, and without action there can be no vigour. Solitude, even when combined with labour, and the use of books, and an occasional visit from a religious instructor, leaves the moral faculties still in a passive state, and without the means of vigorous active exertion. I stated to Mr. Wood, the able superintendent of the Eastern penitentiary, that, according to my view of the laws of physiology, his discipline reduced the tone of the *whole* nervous

system to the level which is in harmony with solitude. The passions are weakened and subdued, but so are all the moral and intellectual powers. The susceptibility of the nervous system is increased, because all organs become susceptible of impressions, in proportion to their feebleness. A weak eye is pained by light, which is agreeable to a sound one. Hence, it may be quite true, that religious admonitions will be more deeply felt by prisoners living in solitude, than by those enjoying society; just as such instruction, when addressed to a patient recovering from a severe and debilitating illness, makes a more vivid impression than when delivered to the same individual in health: but the appearances of reformation founded on such impressions are deceitful. When the sentence is expired, the convict will return to society, with all his mental powers, animal, moral, and intellectual, increased in *susceptibility*, but *lowered in strength*. The excitements that will then assail him will have their influence doubled, by operating on an enfeebled system. If he meet old associates and return to drinking and profanity, the animal propensities will be fearfully excited by the force of these temptations, while his enfeebled moral and intellectual powers will be capable of offering scarcely any resistance. If he be placed amid virtuous men, his higher faculties will feel acutely, but be still feeble in executing their own resolves. Convicts, after long confinement in solitude, shudder to encounter the turmoil of the world; they become excited as the day of liberation approaches, and feel bewildered when set at liberty. In short, this system is not founded on, or in harmony with, a sound knowledge of the physiology of the brain, although it appeared to me to be well administered.

These views are supported by the "report of Doctor James B. Coleman, physician to the New Jersey state-prison, (in which solitary confinement with labour is enforced,) addressed to the Board of Inspectors, November, 1839. The report states, that, "among the prisoners there are many who exhibit a child-like simplicity, which shows them to be less acute than when they entered. In all who have been more than a year in prison, some of these effects have been observed. Continue the confinement for a longer time, and give them no other exercise of the mental faculties than this kind of imprisonment affords, and the most accomplished rogue will lose his capacity for depredating with success

upon the community. The same influence that injures the other organs will soften the brain. Withhold its proper exercise, and as surely as the bandaged limb loses its power, will the prisoner's faculties be weakened by solitary confinement." He sums up the effect of the treatment in these words: "While it subdues the evil passions, almost paralyzing them for want of exercise, it leaves the individual, if still a rogue, one who may be easily detected;" in other words, in reducing the energy of the organs of the propensities, it lowers also that of the organs of the moral and intellectual faculties, or causes the convict to approach more or less toward general idiocy. Dr. Coleman does not inform us whether the brain will not recover its vigour after liberation, and thus leave the offender as great a rogue after the close, as he was at the beginning, of his confinement.

The Auburn system of social labour is better, in my opinion, than that of Pennsylvania, in so far as it allows of a little more stimulus to the social faculties, and does not weaken the nervous system to so great an extent: but it has no superiority in regard to providing efficient means for invigorating and training the moral and intellectual faculties. The Pennsylvania system preserves the convict from contamination by evil communications with his fellow-prisoners, and prevents his associates from knowing the fact of his being in prison. These are advantages that go so far to compensate the evils of solitude, but do not remove them.*

* While these remarks are passing through the press, I have seen an excellent work, entitled "The Philosophy of Human Life," by Amos Dean, Professor of Medical Jurisprudence in the Albany Medical College; on page 158 of which, there is a statement of improvements on prison-discipline, suggested by the late Edward Livingston, which coincide very closely with the views expressed on pages 258 and 259 of this work. I have not seen Mr. Livingston's own remarks; but I am gratified to find that Mr. Dean, in his able and instructive work, advocates principles similar to those in the text. [Albany, N. Y., January, 1849.]

LECTURE XV.

DUTIES OF GUARDIANS, SURETIES, JURORS, AND ARBITRATORS.

Guardianship—A duty not to be declined, though its performance is sometimes repaid with ingratitude—The misconduct is often on the part of the guardians—Examples of both cases—Particular circumstances in which guardianship may be declined—Duties of guardians—They should study, and sedulously perform, the obligations incumbent on them—Property of wards not to be misapplied to guardians' own purposes—Co-guardians to be vigilantly watched, and checked when acting improperly—Care for the maintenance, education, and setting out in life, of the wards—Duty of suretyship—Dangers incurred by its performance—These may be lessened by Phrenology—Selfishness of those who decline to become sureties in any case whatever—Precautions under which suretyship should be undertaken—No man ought to bind himself that he may severely suffer, or to become surety for a sanguine and prosperous individual who merely wishes to increase his prosperity—Suretyship for good conduct—Precautions applicable to this—Duties of jurors—Few men capable of their satisfactory performance—Suggestions for the improvement of juries—Duties of arbitrators—Erroneous notions prevalent on this subject—Decisions of "honest men judging according to equity"—Principles of law ought not to be disregarded.

Having discussed the social duties which we owe to the poor and to criminals, I proceed to notice several duties of a more private nature, but which still are strictly social and very important. I refer to the duties of guardianship and surety.

As human life is liable to be cut short at any stage of its progress, there are always existing a considerable number of children who have been deprived, by death, of one or both of their parents; and an obligation devolves on some one or more of the members of society, to discharge the duties of guardians toward them. When the children are left totally destitute, the parish is bound to maintain them; and that duty has already been considered under the head of the treatment of the poor. It is, therefore, only children who stand in need of personal guidance, and who inherit property that requires to be protected, whose case we are now considering. We may be called on to discharge these duties, either by the ties of nature, as being the next of kin,

or by being nominated guardians or trustees in a deed of settlement executed by the parent who has committed his property and family to our care.

Many persons do not regard these as moral duties, but merely as discretionary acts, which one may discharge or decline without blame, according to his own inclination; and there are individuals who recount some half dozen of instances in which trustees and guardians have been subjected to great labour and anxiety, and been rewarded with loss, obloquy, and ingratitude; and who, on the exculpatory strength of these cases, wrap themselves up in impenetrable selfishness, and, during their whole lives, decline to act as trustee or guardian for any human being.

It is impossible to deny, that instances of flagrant ingratitude to guardians have occurred on the part of young persons; but these are the exceptions; and if this system of declinature were to become general, young orphans would be left as aliens in society, the prey of every designing knave, or be cast on the cold affections of public officers appointed by the state to manage their affairs.

While there are examples of misconduct and ingratitude on the part of wards, there are also, unfortunately, numerous instances of malversation on the part of guardians; and those who are chargeable with this offence, are often, when called on to account for the funds intrusted to their care, the loudest in complaining of hardship, and want of just feeling on the part of wards. I have known some instances, indeed, but very few, in which children, whose affairs had been managed with integrity, and whose education had been superintended with kindness and discretion, have proved ungrateful; but I have known several flagrant instances of cruel mismanagement by guardians. In one instance, a common soldier, who had enlisted and gone to the Peninsular war, left two children, and property yielding about £70 a year, under charge of a friend. He was not heard of for a considerable time, and the report became current that he had been killed. The friend put the children into the charity work-house of the town as paupers, and appropriated the rents to his own use. A relative of the soldier, who lived at a distance, at last got tidings of the circumstance, obtained a legal appointment of himself as guardian to the children, took them out of the work-house, prosecuted the false friend, and compelled him to refund the spoils of his treachery

In another instance, both the father and mother of two female children died, when the eldest of the children was only about three years of age. The father was survived by a brother, and also by a friend, both of whom he named as guardians. He left about £3000 of property. The brother was just starting in business, and had the world before him. He put £1500 of the trust-money into his own pocket, without giving any security to the children; and, during the whole of their minority, he used it as his own, and paid them neither capital nor interest. His co-trustee, who was no relation in blood, was an example of generosity as strikingly as this individual was of selfishness. He lent out the other £1500, took the children into his house, educated them along with his own family, applied the interest of the half of their fortune which he had rescued, faithfully for their benefit, and finally accounted to them honestly for every farthing. When the children became of age, they prosecuted their *disinterested* uncle for the portion of their funds which he had mistaken for his own; and, after a considerable litigation, they succeeded in recovering principal, interest, and compound interest, which the court awarded to them in consequence of the flagrancy of the case, but they were loudly taxed by him and his family with ingratitude and want of due affection, for calling to a court of law so near and dear a relative.

As a contrast to this case, I am acquainted with an instance, in which a body of trustees, named in a deed of settlement by a mere acquaintance, a person who had no claim on their services through relationship, managed, for many years, the funds of a young family—superintended the education of the children—and accounted faithfully for every farthing that came into their own possession; but who, at the close of their trust, owing to their having employed a law-agent who did not attend to his duty, and to the children having turned out immoral, were sued personally for £1000 each, and were involved in a very troublesome and expensive litigation.

I mention these facts to convey to the younger part of my audience, who may not have had experience in such matters, an idea at once of the trouble and risks which often accompany the duty of guardianship. At the same time, I have no hesitation in saying, that I consider every man bound to undertake that duty, with all its discomforts and

dangers, where the dictates of the higher sentiments urge him to do so. If one of our own relatives have been laid in a premature grave, nature calls aloud on us to assist and guide his children with our experience and advice. If we have passed our lives in habits of sincere friendship and interchange of kindness, with one who is not connected with us by relationship, and if that friend be called, before the ordinary period of human life, to part with his family for ever, we are bound, by all the higher and purer feelings of our nature, to lend our utmost aid in protecting and assisting his surviving partner and children, if requested by him to do so.

There are instances, however, in which men, from their vanity or more selfish motives, do not appeal, in their deeds of settlement, to their own respectable relatives and friends for assistance ; but name men of eminent rank as the guardians of their children, under the double expectation of adding a posthumous lustre to their own names, and securing a distinguished patronage to their family. This practice is disowned by conscience and by just feelings of independence ; and trustees called on in such circumstances to act, are clearly entitled to decline.

Suppose, then, that a case presents itself, in which one of us feels himself called on to accept the office of a trustee or guardian, under a deed of settlement—what is it his duty to do ? There are certain rules of law laid down for the guidance of persons acting in these capacities, with which he should, at the very outset, make himself acquainted. They are framed for the direction of average men, and, on the whole, prescribe a line of duty which tends essentially to protect the ward, but which also, when observed, afford an equal protection to the guardian. It has often appeared to me, from seeing the loss and suffering to which individuals are exposed from ignorance of the fundamental rules of law on this subject, that instruction in them, and in other principles of law applicable to duties which the ordinary members of society are called on to discharge, should form a branch of general education.

After having become acquainted with our duties as trustees or guardians, we should bend our minds sedulously to the upright discharge of them. We should lay down a positive resolution not to convert our wards, or their property and affairs, into sources of gain to ourselves, and not to suffer any of our co-trustees to do such an act.

However tempting it may be to employ their capital in our own business, and however confident we may feel that we shall, in the end, honestly account to them for every farthing, still, I say, we ought not to yield to the temptation. The moment we do so, we commit their fortunes to all the hazards of our own; and this is a breach of trust. We place ourselves in circumstances in which, by the failure of our own schemes, we may become the instruments of robbing and ruining helpless and destitute children, committed, as the most sacred charges, to our honesty and honour. If this grand cause of malversation be avoided, there is scarcely another that may not be easily resisted.

After abstaining ourselves from misapplying the funds of our wards, the next duty is, to watch over our co-trustees or guardians, that none of them may fall into that temptation. Men of sensitive, delicate, and upright minds, who are not in the least prone to commit this offence themselves, often feel extraordinary hesitation in checking a less scrupulous co-trustee in his malpractices. They view the act as so dishonourable that they shrink from taxing another with it; and try to shut their eyes to mismanagement as long as possible, solely from aversion to give pain by bringing it to a close. But this is a weakness which is not founded in reason, but on a most erroneous view both of duty and of human nature. I can testify, from my knowledge of human feelings, gained by means both of phrenology and of some experience and observation in the world, that a man who is thoroughly upright and honest, never objects to be looked after with the utmost strictness: he is conscious of virtue, and is pleased that his virtue should be discovered, which it can be most effectually by a close scrutiny of his conduct. We shall never, therefore, offend a really good and trustworthy man, by inquiring habitually how he is discharging his duty. On the contrary, he will invite us to do so; and esteem us the more, the more attentively we watch over the affairs of our pupils.* On the other hand, if the organs of Conscientiousness be so defective in any individual, that he is tempted to misapply the funds committed to his care,

* That steward whose account is clear,
Demands his honour may appear:
His actions never shun the light;
He is, and would be proved, upright.
Gay's Fables. Part II. Fab. 6.

he stands the more in need of being closely watched, and of having his virtue supported by checks and counsel; and we are doubly called on not to allow a false delicacy to seal our lips and tie up our hands, in the very circumstances where the free action of both is most needed. We, therefore, cannot give just offence by the discharge of our duty in this respect. If our co-guardian be honest, he will thank us for our scrutiny; whereas, if he be dishonest, his feeling of offence at our checking his peculation, is like that of a rogue at the officer who detects him and brings him to justice, and is beneath the serious consideration of any rational mind.

But even in this case we shall give much less offence than we imagine. It is a fact, of which I am convinced by extensive observation, that men in whom the organs of Conscientiousness are deficient, and who are thereby more prone to yield to temptations to infringe justice, have very little of that sensibility to the disgrace of dishonesty, which better constituted minds feel so acutely; and that we may speak to them very plainly about their departures from duty, without their feeling debased. But whether they feel offended or not, it is the duty of their co-trustees to prevent them from doing wrong.

If the funds of our pupils be properly preserved and profitably invested, there will generally be little risk of great failures in the remaining duties of trustees and guardians. These consist generally in seeing that the children are properly maintained, educated, and set out in life. Every trustee will be more able to discharge these duties well, in proportion to the range and value of his own information. The lectures delivered under the auspices of this association must conduce greatly toward rendering the citizens of Edinburgh better qualified to discharge this social duty. The views which they here obtain of the nature of man, and of the physical world, and of the relations between them, must open up their minds to a perception of what constitutes a really good education, and also render them better judges of the talents, dispositions, and acquirements, on which success in life most generally depends, and thereby enable them to see that these are duly cultivated in their pupils.

The next social duty to which I advert, is that of suretyship, or cautionry, as it is called in Scotland. A surety may either engage to pay a certain sum of money, if the

principal obligant fail; or become bound for his good behaviour and proper discharge of duty, in any office to which he has been appointed. Great losses and much misery often arise from suretyship; and, in consequence, many persons lay down the rule never to become surety for any human being; while others, of a more generous and confiding nature, are ready to bind themselves for almost every one who gives them solemn assurances that they will never be called on to pay. I shall attempt to expound the philosophy of the subject, and we shall then be better able to judge of our duty.

Suretyship is a lame substitute for a knowledge of human character. There are individual men whose prudence and integrity are proof against every temptation; and if we were certain that any particular individual whom we were about to trust, or whom we intended to employ confidentially in our affairs, was one of these, we should desire no other security for his solvency or good conduct than that afforded by his own noble nature. But we know that there are plausible and ostensibly honest men, who are rogues at the bottom, and we never feel certain that the individual whom we are about to trust or employ may not, in an unlucky hour, be found to belong to this class. We, therefore, require that some individual, who knows his dispositions and abilities, and is assured of his prudence and integrity, should certify his possession of these qualities to us, and certify them in the only way which can convince us of the entire sincerity of the recommendation, namely, by engaging to pay the debt which he incurs, if he do not, or to indemnify us, if, through negligence or dishonesty, he shall occasion any loss to arise to us.

It appears to me that the practical application of phrenology will diminish both the necessity of demanding security and the danger of undertaking it. I have repeatedly shown to you examples of the three classes of heads; *first*, the class very imperfectly endowed in the moral and intellectual regions; *secondly*, the class very favourably constituted, in which these higher organs have a decided preponderance; and, *thirdly*, the class in which the three regions stand nearly in equilibrium. Now, no man of prudence, if he knew phrenology, would become security for men of the lowest class, nor be accessory, in any way, to placing them in situations of trust; because this would just be exposing them to temptations which their weak *moral* faculties were not

capable of withstanding. Men having the highest or best combination of organs, if well educated, may be safely trusted without security; or, if we do become bound for them, we have little to fear from their misconduct. I have mentioned that among several thousand criminal heads which I have seen, I have never met with one possessing the highest form of combination. Only once, in a penitentiary in Dublin, I found a female whose head approached closely to this standard, and I ventured to predict that there was diseased action in the brain. The jailer said he was not aware of there being disease, but that the woman was subject to intense and long-continued headaches, during which her mental perceptions became obscure; and the physician, on hearing my remark, expressed his own matured conviction that there was diseased action in the brain. This leaves, then, only the middle class of individuals, or those in whose brains the organs of the propensities, moral sentiments, and intellect, are nearly equally balanced, as those for whose conduct surety would be required, and for whom it would be hazardous to give it. The necessity and the hazard both arise from the same cause. Individuals thus constituted may be moral, as long as external temptation is withheld; but they may, at any time, lapse into dishonesty, when strong inducements are presented; and often the possession of property, committed to their charge in a confidential manner—that is to say, in such a way that they may misapply it for a time without detection—operates as an irresistible temptation, and, to the consternation of their sureties, they change their character, in the very circumstances in which their good conduct was most implicitly relied on. We sometimes read in the newspapers of enormous embezzlements, or breaches of trust, or disgraceful bankruptcies, committed by men who, during a long series of years, had enjoyed the most reputable characters; and the unreflecting wonder how men can change so suddenly, or how, after having known the sweets of virtue, they can be so infatuated as to part with them all, for the hollow illusions of criminal gain. But the truth is, that these men belong to the class in which the three regions of the brain are nearly equally balanced, and their virtue never at any time stood on a very stable foundation. It was poised like a pyramid on its apex, and the breath of external temptation was sufficient at any moment to overset it. Many small slips from the code of per

fect morality probably preceded the grand catastrophe; which, moreover, was hastened, if not induced, by the facilities for doing wrong, afforded by the very confidence and good reputation which they had previously enjoyed.

It is of some importance to know the characteristic distinctions of the different classes of minds, in judging with respect to suretyship; because, looking at such obligations, we observe that in some cases they lead to no loss, while in others they are ruinous in the extreme. The judgment is perplexed while we have no means of accounting for these differences of result; but if you will study phrenology, and apply it practically, it will clear up many of these apparent anomalies, and enable you to judge when you are safe, and when exposed to danger.

We come now to inquire into the practical rule which we should follow, in regard to becoming sureties. In the present state of society, the exacting of security is in many instances indispensable; and I cannot, therefore, see any ground on which the selfishness of those who decline, in all circumstances, to undertake it can be defended. It appears to me to be a necessary duty, which presents itself to many individuals; and that, although, when imprudently discharged, it may be hazardous, we are not, on that account, entitled entirely to shrink from it. There are several precautions, however, which we are not only entitled, but called on, to adopt, for our own protection. In the *first* place, no man ought ever to bind himself to pay money to an extent which, if exacted, would render him bankrupt; for this would be to injure his creditors by his suretyship: nay, he should not bind himself gratuitously to pay any sum for another which, if lost, would seriously injure his own family. In short, no man is called on to undertake gratuitous and benevolent obligations beyond the extent which he can discharge without severe and permanent suffering to himself; and in subscribing such obligations, he should invariably calculate on being called on to fulfil them by payment. In general, men, even of ordinary prudence, find, by experience, that they are compelled to pay at least one-half of all the cautionary obligations which they grant, and the imprudent even more. Unless, therefore, they are disposed to go to ruin in the career of social kindness, they should limit their obligations in proportion to their means.

Secondly—We should consider the object sought to be

attained by the suretyship. If it be to enable a young man to get into a desirable employment, or to commence business on a moderate scale on his own account; or if it be to help a friend, in a temporary, unexpected, and blameless emergency; good may, in all of these instances, result from the act. But if it be merely to enable a person who is doing well, to do, as he imagines, a great deal better; to enable him to extend his business, or to get into a more lucrative situation; we may often pause, and doubt whether we are about to serve our friend, or injure both him and ourselves. According to my observation, the men who have succeeded best in the pursuits of this world, and longest and most steadily enjoyed prosperity and maintained character, are those who, from moderate beginnings, have advanced slowly and steadily along with the stream of events, aided chiefly by their own talents and mental resources; men who have never hastened to be rich, but who, from the first, have seen that time, economy, and prudence, are the grand elements of ultimate success. These men ask only the means of a fair commencement, and afterward give no trouble, either to the public or to their friends. Success flows upon them as the natural result of their own course of action, and they never attempt to force it prematurely.

There are other individuals, full of sanguine hope, inordinate ambition, or a boundless love of gain, who never discover the advantage of their present attainments, but who are constantly aiming at an imaginary prosperity, just a arm's length beyond their reach; and they ask their friends to lend them the aid of their arms, to add to the length of their own, assured that they will then seize the prize. These persons urge their friends to become sureties for them to raise money, in order to extend their business. I would humbly recommend to those to whom this appeal is made, to moderate the pace of their sanguine friends, instead of accelerating it; to advise them to practice economy and patience, and to wait till they acquire capital of their own to increase their trade. The mental weakness of such men arises from their own over-sanguine, ambitious, and grasping disposition; and it is liable to be fostered, and rendered more dangerous, by encouragement. The chances are many, that they will ruin themselves, and bring serious loss on their sureties. I have seen the most deplorable examples of families absolutely ruined by a single member of them

possessing this character, who, by his brilliant representations of approaching fortune, succeeded in obtaining possession of the moderate patrimonies of his brothers and sisters, the funds provided for his mother's annuity, in short, the whole capital left by his father, as the fruit of a long and laborious life—and who, in a few years, had dissipated every sixpence of it in enterprizes and speculations of the most extravagant description.

One benefit of phrenology, to those who make a practical use of it, is, to enable them to discriminate between a man's hopes and his real capacities. They are aware, when they see considerable deficiency in the organs of Intellect, or in those of Cautiousness, Conscientiousness, and Firmness, that whatever promises the individual may make, or however sincere his own intentions of being prosperous may be, yet, if he involve himself in a multitude of affairs, beyond the reach of his intellectual powers, failure will be inevitable; and they act accordingly. I have repeatedly urged individuals to abstain from assisting characters of this description to extend their speculations, and advised them to reserve their funds for emergencies of a different description, which were certain to arise; and at the distance of a few years, after the advice had been forgotten by me, they have returned and thanked me for the counsel. Such speculative men generally fall into great destitution in the end; and my recommendation to their relatives has uniformly been, to reserve their own means, with the view of saving them from abject poverty, when their schemes shall have reached their natural termination in ruin; and this has been found to be prudent advice.

As a general rule, therefore, I would dissuade you from undertaking suretyship merely to increase the quantity, or accelerate the march, of prosperity, if your friend, by the aid of time, prudence, and economy, may ultimately command success by his own resources.

The last rule in regard to suretyship which I shall state is, that, in becoming bound for the good conduct of an individual in a new employment, you should be well aware that the situation into which you are about to introduce him is one suited to his natural dispositions and capacities, and not one calculated to bring the weaker elements of his character into play, and be the means of ruining him, as well as injuring yourselves. Suppose, for example, that a young

man has any latent seeds of the love of intemperance, or even great conviviality, in his constitution, or that he is fond of a wandering and unsettled life, and that, by becoming surety for his good conduct and faithful accounting, you get him employed as a mercantile travelling agent, you manifestly expose him to temptations which may completely upset his virtue. I have known individuals, who, in more favourable circumstances, had acquired and maintained excellent characters, ruined by this change. Again—If an individual be either extremely good-natured, so much so that he cannot resist solicitation; or if he be extremely ambitious and fond of power, or very speculative; if you aid him in obtaining an agency for a bank, in which he will obtain an immediate command of large sums of money, and be thereby exposed to solicitation, or tempted to indulge in magnificence, or to speculate on his own account, for all of which the command of money presents many faculties, you may bring him to ruin, when you intended to do him a great service. It has been remarked, that more men prove unsuccessful as bank agents, than almost in any other office of trust; and the reason appears to me to be, that the free command of money presents greater temptations to the weak points of character than almost any other external circumstance. For this reason, it is only men of the highest natural moral qualities who should be appointed to such situations; individuals whose integrity and love of justice and duty are their strongest feelings; and then, with average intellectual endowments, their conduct will be irreproachable. It is clear, that, until we possess an index to natural talents and dispositions which can be relied on in practice, much disappointment, loss, and misery, must inevitably be sustained, by the improper location or employment of individuals in the complicated relations of society; and if phrenology promise to aid us in arriving at this object, it is worthy of our most serious consideration.

Another social duty, which men are occasionally called on to discharge, is that of acting privately as *arbitrators* between disputing parties, or publicly as *jurymen*. According to the present practice, no special preparation for these duties is supposed to be necessary. A young man may have obtained any kind of education, or no education; he may possess any degree of intelligence and talent; and he may be upright in his dispositions, or very much the reverse,

yet none of these things are of the least consideration, in regard to his qualification to serve as a juror: but as soon as he is found inhabiting a house, or possessing a shop, or a farm, of a certain rent, his name is placed on the list of jurors; he is summoned, in his turn, to sit on the bench of justice, and there he disposes, by his vote, of the lives and fortunes of his fellow-men. The defence maintained for this system is, that as twelve individuals are selected in civil cases, and fifteen in criminal, the verdict will imbody the average intelligence and morality of the whole; and that, as the roll of jurors includes all the higher and middle ranks, their decisions, if not absolutely perfect, will, at least, be the best that can be obtained. This apology is, to some extent, well founded; and the superior intelligence of a few frequently guides a vast amount of ignorance and dulness in a jury. Still, the extent of this ignorance and inaptitude is a great evil; and as it is susceptible of removal, it should not be permitted to continue.

All of you who have served as jurors, must be aware of the great disadvantages under which individuals labour in that situation, from want of original education, as well as from the want of the practice of mental application. I knew an instance in which a jury, in a civil cause which embraced a long series of transactions, of bills, purchases, sales, excise entries, permits, and other technical formalities, was composed of four Edinburgh traders and of eight men balloted from the county of Edinburgh, where it borders on Lanarkshire and Peeblesshire; men who occupied small farms, who held the plough and drove their own carts; persons of undoubted respectability and intelligence in their own sphere, but who knew nothing of mercantile affairs; whose education and habits rendered them totally incapable of taking notes of the evidence, and, of course, of forming any judgment for themselves. When the jury retired, at ten o'clock at night, after a trial of twelve hours, one of the merchants was chosen foreman, and he asked the opinion of his brethren in succession. Eight of them echoed the charge of the presiding judge; but the other three announced a contrary opinion. The jurors from the country, seeing that the merchants were all on one side, in opposition to them, acknowledged that the details of the case had extended far beyond their capacity of comprehension; that they really could form no judgment on the question, and therefore

concluded that it was safest to follow the judge. The minority differed from the judge; they took great pains in explaining, from their own notes, the leading circumstances to the majority, and succeeded in bringing them round to their opinion; and the result was, a verdict of a totally opposite description to that at first proposed. I obtained this information, the day after the trial, from one of those who had stood in the minority. The verdict was right, and no attempt was made to disturb it by the party who lost his cause.

The majority here were not to blame; they had been called on to discharge a public duty for which they were totally unprepared, and they did their best to attain the ends of justice. But what I humbly submit to your consideration is, that as the ordinary members of the community are called on to exercise the very important office of jurors, and may become the instruments of taking away the life or property of their fellow-men, their education should be so conducted as to qualify them, to a reasonable extent, for discharging so grave a duty. If we were accustomed to look on our social duties as equally important with our private interests, instruction calculated to qualify us to comprehend questions of private right and public criminality, would undoubtedly form a branch of our youthful learning. It has sometimes occurred to me, that it would be useful to confer certificates, or degrees of qualification, on young men, founded on an examination into their educational attainments, and that these should be indispensable to their being placed on the roll of jurors, or even of voters, and also to their exercising any public office of trust, honour, or emolument. The effects of such a regulation would probably be, that it would be considered disgraceful to want this qualification; that parents would strain every nerve to obtain it for their children, and that men who must be the architects of their own fortunes, would begin by pursuing such studies as would enable them to acquire it. The standard of education is still very low, even in Scotland; but in England it is much more so. I knew an Englishman who had acquired a fortune exceeding £70,000, whose whole educational acquirements consisted in reading and the ability to subscribe his own name. He was, as you may suppose, a man of great natural talent. He travelled with a clerk, who conducted his correspondence, drew his bills, kept his books, and sup-

plied the want of original education, as far as this could be done; but he strongly felt the extent of his own defects. His affairs required such constant active exertion, that he had found it impossible, after he had entered into business, to educate himself; and he was so far advanced in life when I conversed with him, that he had then no hopes of going to school.

Analogous to the duty of jurors, is that of acting as arbitrator between individuals who have differences which they cannot amicably settle. This being altogether a voluntary duty, it may be supposed that those only who are well known to be qualified for it, will be called on to discharge it: but the reverse is too often the case. Individuals who are themselves ignorant of the nature of an arbitrator's duties, are no judges of what qualifies another person to discharge them, and often make most preposterous selections. It is indeed a very common opinion, that the referee is the advocate of the party who nominates him, and that his duty consists in getting as many advantages for his friend as possible. Hence, in anticipation of disagreement, power is given to the two referees, in case of difference in opinion, to choose a third, whose award shall be final; and not unfrequently this *oversman*, as he is called in Scotland, halves the points of difference between the two discordant arbitrators, and assumes that this must be absolute justice.

It is a favourite maxim with persons not conversant with law, that all disputes are best settled by a reference to "honest men judging according to equity." I have never been blind to the imperfections of law and of legal decisions; but I must be permitted to say, that I have seen the worst of them far surpassed in absurdity and error by the decisions of honest men judging according to equity. If any of you have ever acted as an arbitrator, he must have found that the first difficulty that presented itself to his understanding was the wide difference between the contending parties regarding matters of fact. The law solves this difficulty, by requiring evidence, and by establishing rules for determining what evidence shall be sufficient. Honest men, in general, hold themselves to be quite capable of discovering, by the inherent sagacity of their own minds, which statement is true, and which false, without any evidence whatever, or, at least, by the aid of a very lame probation. The next difficulty which an arbitrator experi-

ences is, to discover a principle in reason, by which to regulate his judgment, so that impartial men may be capable of perceiving why he decides as he does, and that the parties themselves may see that justice has been done to them. In courts of law, certain rules, which have been derived from a comprehensive survey of human affairs and much experience, are taken as the guides of the understanding in such circumstances. These are called rules or principles of law. They do not always possess the characteristics of wisdom which I have here described, nor are they always successfully applied; but the objects aimed at, both in framing and applying them, are unquestionably truth and justice. Yet honest men, judging according to equity, too frequently treat all such rules with contempt, assume their own feelings to be better guides, and conceive that they have dispensed absolute justice, when they have followed the dictates of their own understandings, unenlightened, inexperienced, and sometimes swayed by many prejudices.

I recollect a decision of this kind, which astonished both parties. A trader in Edinburgh had ordered a cargo of goods from Liverpool, according to a description clearly given in a letter. They were sent, and invoiced according to the description When they arrived, it was discovered that they were greatly inferior, and even some of the articles different in kind from what were ordered; and also that they were faded, and on the point of perishing through decay. The purchaser refused to receive them; the seller insisted; and the question was referred to an "honest man." He decided that the goods were not conformable to the order given, and that the purchaser was not bound to receive them; but he nevertheless condemned the purchaser to pay the freight from Liverpool, and all the expenses of the arbitration; and assigned as his reasons for doing so, that he, the arbitrator, was not bound by rules of law, but was entitled to act according to equity; that the seller would sustain an enormous loss, by disposing of the cargo at Leith for what it would bring; that the purchaser had escaped a ruinous loss, by being allowed to reject it; that, therefore, it was very equitable that the purchaser should bear a little of the seller's burden; and that the freight and costs formed a very moderate portion of the total evil to be sustained. He added, that it would teach the purchaser not to order whole cargoes again, which he thought was going beyond

the proper limits of his trade; besides, it was a very dangerous thing for any man to order a whole cargo, especially when he had not seen the goods before they were shipped.

Perhaps some person may be found, to whom this may appear to be a very just judgment; but to every one acquainted with the principles of trade, and who perceives that the seller's bad faith, or unbusiness-like error, was the sole cause of the evil, it must appear, at best, as a well intended absurdity, if not a downright iniquity.

I know another case, in which the arbitrator found himself much puzzled, and resorted to this method of solving the difficulty. He called the two parties, Mr. A. and Mr. B., to meet him in a tavern, and placed them in separate rooms. He went first to Mr. A., and told him that he had seriously read all the papers, and considered the case, and had come to the conclusion that he, Mr. A., was entirely in the wrong, and that he meant to decide against him, but had called him and Mr. B. to meet him, to try if it were possible to negotiate a compromise between them, to save himself from the disagreeable necessity of pronouncing such a decision. He concluded by asking Mr. A. what was the largest sum he would voluntarily offer, to avoid the impending decision. Mr. A., after expressing his surprise and disappointment, and arguing his case anew, which argument was heard patiently, and pronounced to be unsatisfactory, at last named a sum. The arbitrator proceeded to the room in which Mr. B. was waiting, and told him that he had studied the case, &c., and was extremely sorry that he regarded *him* as completely in the wrong, and meant to decide against him; but as he had a regard for him, he begged to know the smallest sum which he was willing to accept, if Mr. A. could be induced to offer it, as an amicable compromise, to save him the pain of pronouncing such a judgment. Mr. B. argued, and was listened to; his arguments were repelled, and he was again solicited to name a sum, under pain of having a decision immediately pronounced, which would deprive him of all. He at last named a sum. There was a wide difference between the sums named; but the referee was not to be defeated; he went backward and forward between them, constantly threatening each in turn with his adverse decision, till he forced the one up and beat the other down, so that they at last met; and then, keeping them still apart, he caused each of them to subscribe a binding

letter of compromise. This accomplished, he introduced them to each other, and boasted of the *equity* of his mode of settling the dispute.

One practical remark which I beg leave to offer on the subject is, that the education of lawyers should embrace more instruction in the business affairs of the world than it does, and that the education of practical men should include some information concerning those great principles of law which have been found, in an extensive series of instances, to lead most successfully to justice. In this way, the lawyer would be better guided, by the knowledge of business, both in framing and in applying his legal rules, while the mercantile arbitrator would enjoy the advantage of profounder principles to assist his judgment; and a purer administration of justice by both public and private tribunals would probably be the beneficial result.

LECTURE XVI.

GOVERNMENT.

Various theories of the origin of government—Theory derived from Phrenology—Circumstances which modify the character of a government—Government is the just exercise of the power and authority of a nation, delegated to one or a few for the general good—General consent of the people its only moral foundation—Absurdity of doctrine of the Divine right of governors—Individuals not entitled to resist the government whenever its acts are disapproved by them—Rational mode of reforming a government—Political improvement slow and gradual—Advantages thence resulting—Independence and liberty of a nation distinguished—French government before and after the revolution—British government—Relations of different kinds of government to the human faculties—Conditions necessary for national independence: (1.) Adequate size of brain; (2.) Intelligence and love of country sufficient to enable the people to act in concert, and sacrifice private to public advantage—National liberty—High moral and intellectual qualities necessary for its attainment—Illustrations of the foregoing principles from history—Republics of North and South America contrasted—The Swiss and Dutch—Failure of the attempt to introduce a free constitution into Sicily.

Various opinions have been entertained by philosophers regarding the origin of government. Some have viewed it as an extension of the parental authority instituted by

Nature; others as founded on a compact, by which the subjects surrendered part of their natural liberty to their rulers, and obtained in return an obligation for protection, and the administration of just laws for the public benefit. Some have assigned to it a Divine origin, and held that kings and rulers, of every rank, are the delegates of heaven, and have a title to exercise dominion, altogether independently of the will of their subjects. None of these views appear to me to reach the truth.

In the human mind, as disclosed to us by phrenology, we find social instincts, the activity of which leads man to congregate in society. We discover, also, organs of Veneration, giving the tendency to look up with respect to superior power, to bow before it, and to obey it. There are also organs of Self-Esteem, prompting men to assume authority, to wield it, and to exact obedience. Government seems to me to spring from the spontaneous activity of these faculties combined with intellect, without any special design or agreement on the part either of governors or of subjects. In rude ages, individuals possessing large brains, (which give force of character,) active temperaments, and large organs of Self-Esteem and Love of Approbation, would naturally assume superiority, and instinctively command. Men with smaller brains, less mental energy, and considerable Veneration, would as instinctively obey; and hence government would begin.

This is still seen among children; for in their enterprises they have leaders, whom they follow and obey, on account of some such qualifications as those now enumerated. A good illustration of this occurs in the autobiography of Benjamin Franklin. The force of character arising from his large brain, and his fertility in expedients, made him a ruler in childhood as well as in mature age. "Residing near the water," says he, "I was much in it and on it. I learned to swim well, and to manage boats; and, when embarked with other boys, I was commonly allowed to govern, especially in any case of difficulty; and upon other occasions I was generally the leader of the boys."

In proportion as the moral and intellectual faculties develope themselves in the tribe or nation, there is a tendency to define and set limits to the power of the rulers, and to ascertain and enlarge the boundaries of the liberties of the subjects. External circumstances also modify the character of the government. Surrounded by powerful and

ambitious neighbours, the subjects of a particular state forego many individual advantages, for the sake of the higher security which they derive from placing the whole power of the nation in the hands of a single individual. They prefer a despotism, because it enables the executive government to concentrate and propel the whole physical force of the kingdom against an invading enemy. In other circumstances, where local situation, such as that of England, or that of the United States of North America, exposes the national independence to few dangers, the subjects, in proportion to their moral and intellectual advancement, naturally limit the power of their sovereigns.

I regard the form of government of any particular country to have arisen from the following causes, or some combination of them:

First—The size and particular combination of the organs in the brains of the people.

Secondly—The temperament of the people.

Thirdly—The soil and climate of the nation.

Fourthly—The character and condition of the nations with whom they are geographically in contact. And,

Lastly—The extent of moral and intellectual cultivation which the people have undergone.

Rationally viewed, government is the just exercise, by one or a few individuals, of the power and authority of the nation, delegated to them for the general good; and the only moral foundation for it is the general consent of the people. There may be conquest, and master and slaves; but this form of government is the result of force triumphing over right; and one duty incumbent on the people in such a state of things is, to overthrow the victor's dominion as speedily as possible. Rulers and subjects are all equally men, and equally placed under the Divine laws, whether written in our nature or in scripture; and as these proclaim the obligation on each of us to do to others as we would have them to do unto us, and to love our neighbours as ourselves, the notion of *right* in any one man or class of men to rule, for their own pleasure or advantage, over their neighbours, against the inclination and contrary to the welfare of the parties governed, is utterly excluded. The only government which the moral and intellectual faculties can recognise as founded in nature, is one that flows from, and is exercised directly for the benefit of, the subjects. The idea that kings, princes, and nobles have rights of property

m the homage, services, and devotion of other men, which they are entitled to exact for their own benefit and gratification, whether agreeable to the will of the subjects or not, appears to me to be preposterous in the extreme. It is an example of the selfish system carried to infatuation, in which individual rights become an overwhelming idea, and obliterate from the mind all moral and intellectual perceptions inconsistent with themselves. The Bourbons pretended to have Divine right of this kind to govern France; and when Louis XVIII. was restored by the victorious arms of the sovereigns of Europe, he, out of his mere grace, issued a charter, conferring a certain extent of freedom on the French nation. After the revolution of July, 1830, when Charles X. was driven from the throne, the French abjured the principle, and, to prevent its recurrence, insisted that Louis Philippe should be styled the king, not of France, but of *the French*, that is, chosen by the French people to rule over them.

The idea that government is instituted and maintained exclusively for the welfare of the people, does not, however, imply that each individual is authorized to resist it, whenever he conceives that it is injurious to his particular interests, or disagreeable to his taste. The social law of our nature, out of which government springs, binds us together for good and also for evil. I have endeavoured to show that we cannot attain to the full gratification of our own desires, even although enlightened and reasonable, unless we can persuade our neighbours to adopt the same social movements with ourselves. If we attempt to advance alone, even to good, we shall find ourselves situated like a soldier on a march, who should move faster or slower than his column. He would be instantly jostled out of the ranks, and compelled to walk by himself. The same result occurs in regard to individual attempts to arrest or improve a government. The first step, in a rational and moral course of action, is to convince our fellow-men of the evils which we wish to have removed, and to engage their co-operation in obtaining a remedy; and until this be done, to continue to obey. As soon as the evil is generally perceived, and a desire for its removal pervades the public mind, the amendment becomes easy of accomplishment. By the social law, individuals who attempt changes, however beneficial, on public institutions, without this preparation of the general mind, encounter all the hazards of being swept into perdition by the mere force of ancient prejudices and superstitions, even although these

may have their root entirely in ignorance, and may be disavowed by reason. The principles of phrenology are excellent guides; they teach us that the propensities and sentiments are mere blind instincts, and that they often cling to objects to which they have been long devoted, independently of reason. They show us that, when we desire to change their direction, we must do much more than simply convince the understanding. We must, by quiet and gradual efforts, loosen the attachment of the feelings to the injurious objects, and, by soothing and persuasion, incline them to the new and better principles which we desire them to embrace.

There is the soundest wisdom in this arrangement of Providence, by which political improvement is slow and gradual; because, in the very nature of things, pure moral institutions cannot flourish and produce their legitimate fruits, unless the people for whom they are intended possess moral and intellectual qualities corresponding with them. This fact will become abundantly evident, when we trace the progress of government a little in detail.

The first requisite toward the formation of a government by a nation is, that it be *independent* of foreign powers. If it do not possess independence, the people must of necessity submit to the will of their foreign master, who generally rules them according to narrow views of his own advantage, without the least regard to *their* feelings or welfare.

Great confusion prevails in the minds of many persons, regarding the words *liberty* and *independence*, when applied to nations. A nation is *independent* when it does not owe submission to any foreign power. Thus, France and Spain, under the Bourbon dynasties, before the French revolution, were both independent; they owned no superior: but they were not free; the people did not enjoy liberty: that is to say, their internal government was despotic; the personal liberty, lives, and fortunes of the subject were placed at the uncontrolled disposal of the sovereign. No foreign potentate could oppress a Frenchman with impunity, because the offender would have been chastised by the French government, which was independent and powerful, and made it a point of honour to protect its subjects from foreign aggression—for permitting this would have implied its own imbecility or dependence. But a Frenchman enjoyed no protection from the arbitrary and unjust acts of his own government at home. The kings were in the practice of issuing "Lettres de cachet," or warrants for the secret

imprisonment of any individual, for an indefinite period, without trial, without even specifying his offence, and without allowing him to communicate with any power or person, for his protection or vindication. There was no restraint against the murder of the victim, when so imprisoned; so that life was as insecure as liberty.

Under that sway, the French nation was independent, but the people were not free. They are now both independent and free; for no foreign nation rules over them, and they, as individuals, are protected by the law from all arbitrary interference with their private rights by their own government. The inhabitants of Britain have long enjoyed both advantages.

England has been independent almost since the Romans left the country; for although it was conquered by the Normans, in the year 1066, the conquerors fixed their residence in the vanquished territory, made it their home, and in a few generations were amalgamated with the native population. But England was not properly free till after the revolution in 1688. The Scottish and Irish nations now form, along with England, one empire, which is independent, and all the people of which are free: that is, the nation owns no superior on earth and every individual is protected by the laws, in his person, his property, and privileges, not only against the aggressions of his neighbours, but against the government itself. The only obligation incumbent on the subject toward the state is to obey the laws; and when he has done so, the rulers have no power over him whatever for evil.

The history of the world shows that some nations live habitually under subjection to foreign powers: that other nations are independent, but not free; while a few, a very few indeed, enjoy at once the blessings of independence and liberty. It may be advantageous to investigate the causes of these different phenomena.

The social duties which we owe to our rulers are extremely important; yet we cannot comprehend them aright, without understanding thoroughly the subject of government itself, and the relations of the different kinds of it to the human faculties. On this account, the brief exposition which I propose to give of this subject is not foreign to the grand question of our moral duty.

To secure and maintain national independence, the first requisite in the people appears to be adequate size of brain. You are well acquainted with the phrenological principle,

that size of brain, other conditions being equal, is the measure of mental power. Now, all experience shows, that wherever a people possessing small brains have been invaded by one possessing large brains, they have fallen prostrate before them. The Peruvians, Mexicans, and Hindoos have uniformly been deprived of their independence when invaded by European nations, whose brains are larger. On the contrary, wherever the invaded people have possessed brains larger, or as large, as those of their assailants, and also the second requisite for independence, which I shall immediately mention, they have successfully resisted. The Caribs, Araucanians, Caffres, and others, are examples of barbarian tribes, with brains of a full size, successfully resisting the efforts of Europeans to enslave them.*

The blessing of independence to a nation is invaluable,

* The first phrenological elucidation of the causes of the INDEPENDENCE and LIBERTY of nations was given by Mr. George Lyon, of Edinburgh, in several able Essays published in the second and third volumes of the Phrenological Journal in 1825 and 1826. The evidence of the soundness of the principles then advanced afforded by the specimens of the skulls of nations and tribes which have been conquered by European invaders, as well as those of tribes which have successfully resisted these invaders, contained in the collection of the Phrenological Society at Edinburgh, is very striking. It has received a great accession of strength from the work of Dr. Morton, of Philadelphia, on the "*Crania Americana.*" Dr. Pritchard, in the Natural History Section of the British Association, at a meeting held on the 29th August, 1839, brought forward a paper on the extermination of various uncivilized races of mankind, and recommended a grant of money for assisting his investigations into their habits and history. He proceeded, apparently without having read the writings of phrenologists on the subject, and certainly without having examined the evidence on it contained in the Phrenological Society's museum. Indeed, in answer to a question from Mr. H. C. Watson, he confessed that he had not examined the skulls in the museum. Dr. Pritchard is a man of talents, and indeed he had need to be so, when he undertakes to elucidate the natural history of man, with a determined resolution to shut his eyes against the most important discovery that has ever been made in this branch of science. Nor does he stand alone in this determination. When the British Association met in Edinburgh, I wrote a letter offering to give a demonstration of the national skulls in the Phrenological Society's museum, before any of the sections in which such a communication could be received; but the secretaries did not even answer my letter

and these examples ought to operate as strong motives to the observance of the organic laws, in order to prevent deterioration and diminution of the brain in a nation, and to avoid mental imbecility, which is their invariable accompaniment. In Spain the aristocratic class had long been guilty of the neglect of those laws, and in the beginning of the present century her nobles and king were sunk into such effeminacy, that they became the easy prey and puppets of the men of energetic brains, who then swayed the destinies of France; and it was only when the great body of the people, who were not so corrupted and debased, felt themselves insulted and oppressed by the French dominion, that they put forth their energies to recover their independence, and that, with the aid of Britain, the foreign yoke was removed.

The second requisite to independence is, that the people shall possess so much intelligence and love of their country as to be capable of acting in concert, and of sacrificing, when necessary, their individual interests to the public welfare. You can easily understand, that, however energetic the individuals of a nation may be, if they should be so deficient in intelligence as to be incapable of joining in a general plan of defence, they must necessarily fall before a body of invaders who obey a skilful leader, and act in masses under a combined impulse. This was the case with the Caribs. Their brains, particularly in the regions of Combativeness and Destructiveness, were so large, that, individually, they possessed great energy, and could not be subdued; but their reflecting organs were so deficient, that they were incapable of co-operating in a general system of defence. The consequence was, that, as individuals, they resisted to the last; while, through want of intellectual capacity, they could not combine for their mutual support. Their courage was unavailing; they were exterminated in detail, although never subdued. The Araucanians possessed equally large organs of the propensities, but greatly larger intellectual organs. They were capable of combination; they acted in concert, and preserved their independence.

The great body of the people must also be prepared to sacrifice, when necessary, their individual to the public interests, before independence can be maintained. The connexion between national independence and individual interest is so palpable and speedily felt, that a very small portion of moral sentiment suffices to render men capable of this devotion. Indeed, if Combativeness and Destructiveness,

which delight in war—and Self-Esteem, which hates obedience, be strong, these, combined with intellect, are sufficient to secure independence. It is only when indolence and avarice have become the predominant feelings of the people, combined with deficiency or want of exercise in Self-Esteem, and Combativeness, that they prefer their individual comforts and property, even under the galling yoke of a foreign foe, to national independence.

These facts in the natural history of nations were unknown until phrenology brought them to light. Formerly, all differences between different tribes of people were accounted for by difference of climate, education, and institutions; but we now see that developement of brain is fundamental, and is the chief cause, not only of the differences of disposition and talent, but of the different institutions of each nation also. Climate certainly does operate on the mind, but it is only through the nerves and brain that it *can* do so; and hence, a knowledge of the influence of the brain is the basis of a sound philosophy respecting the independence of nations.

The last and best condition of a nation is when it is not only independent, but free; that is, when it owns no master abroad, and when each inhabitant acknowledges no master at home, except the laws, or magistrates, who are subject to the laws, and merely their interpreters and administrators.

Before a people can attain to this form of government, they must possess not only the qualities requisite for independence, but far higher moral and intellectual gifts than mere independence demands. The love of justice must have become so prevalent, that no limited number of individuals can muster followers sufficient to place themselves in the condition of masters over all the rest. The community in general must be enlightened to such a degree, that they will perceive the inevitable tendency of individuals to abuse power when they possess it without control; and they must have so much of devotion to the general interests as to feel disposed, by a general movement, to oppose and put an end to all attempts at acquiring such dominion; otherwise the nation cannot enjoy liberty. They must, also, as individuals, be in general moderate, virtuous, and just, in their own ambition; ready to yield to others all the political enjoyments and advantages which they claim for themselves.

History confirms these principles. The original European settlers of North America were English families, who had

left their country under religious or political persecution; and their numbers were recruited by industrious persons, who emigrated to that land with a view to improving their condition by the exercise of their industry and talents. When they threw off the yoke of Britain, they were a moral and an intelligent people; they instituted the American republic, the freest government on earth, and which has flourished in vigour to the present day.

The continent of South America was peopled at first by ruffian warriors and avaricious adventurers, who waded through oceans of blood to dominion over the natives, and who practised cruelty, oppression, and spoliation, but not industry, as their means of acquiring wealth. Their numbers were maintained by a succession of men animated by the same motives, and possessing essentially the same characteristics, sent out by the corrupted government of old Spain, to a harvest of spoil. They were not the amiable, the religious, and the laborious of the Spanish soil, driven away by oppression, hating injustice, and flying to a new country for refuge from it, as in North America. The troubles of the mother country tempted these South American colonists at last to disclaim the Spanish authority; and they waged for their independence a long, a cruel, and a bloody war; in which they were at last successful. They then, in imitation of the North Americans, instituted freedom among themselves; they established republics, and a government by laws.

But mark the result. The cruel, base, self-seeking, dishonest, vain, and ambitious propensities, which had distinguished them as Spanish colonists, did not instantly leave them when they proclaimed themselves to be free citizens of independent republics. On the contrary, these feelings, which had long existed in them, operated with fearful energy. As private individuals, the new republicans devoted themselves to evading payment of all government taxes and duties; their import duties on foreign commodities were converted into means of enriching public functionaries intrusted with their collection, and of practising oppression on rival politicians and traders. Their public couriers were robbed. In their senates they formed themselves into cabals for the promotion of some project of individual or local advantage or ambition; and when not successful, they obstructed all measures for the general advantage, and often appealed to arms to settle their disputes The consequence

has been, that, owing solely to the ignorance, the selfishness, and the absence of general morality and love of justice in the people, these states, with the richest soils and finest climates in the world, with independence, and with the most improved forms of domestic government, have, since they acquired their liberty, exhibited almost one unvaried scene of revolution, bloodshed, and contention. This is the penalty which Providence ordains them to pay for their parents' transgressions, and for the immoral dispositions which they have inherited from them.

As a contrast to these events, the history of the Swiss and the Dutch may be alluded to. Both of these people have large brains, and an ample developement of both the moral and the intellectual organs. The Swiss were early distinguished by the simplicity of their manners, and their moral devotion and determination; while Holland was peopled from various countries by individuals flying, like the British Americans, from civil or religious persecution. "The Swiss had been free from time immemorial," says Russell, "although their *independence* dates from 1308."

"Till the reign of Albert I." says Mr. G. Lyon,* "the emperors of Germany had respected the rights and privileges of the Swiss. Rodolph, in particular, the father of Albert, had always treated them with great indulgence, and had generously assisted them in defending their liberties against the noblemen who attempted to infringe them. But Albert aimed to govern the Swiss as an absolute sovereign, and had formed a scheme for creating their country into a principality for one of his sons. Having failed in his attempts to induce them to submit voluntarily to his dominion, he resolved to tame them by rougher methods, and appointed governors, who domineered over them in the most arbitrary manner. 'The tyranny of these governors,' says Russell, 'exceeded all belief; but I need not repeat the story of the Governor of Uri, who ordered his hat to be fixed upon a pole in the market-place, to which every passenger was commanded to pay obeisance on pain of death; or the sequel of that story, in which the illustrious William Tell nobly dared to disobey this imperious command. This example determined Melchtat of Underwalden, Straffacher of Schweitz, and Furtz of Uri, to put in execution the measures they had concerted for the delivery of their country. And here we perceive the power of combination which a

* Phrenological Journal, Vol. III. p. 247.

people possess who act under the influence of the higher sentiments. The whole inhabitants of the several cantons, we are told, were secretly prepared for a general revolt, and the design, which was resolved upon on the 17th of September, 1307, was executed on the 1st of January, 1308.' 'On that day,' says Coxe, '*the whole people rose as with one accord*, to defy the power of the house of Austria, and of the head of the empire.' They surprised and seized the Austrian governors, and, with a moderation unexampled in the history of the world, they conducted them to the frontiers, obliged them to promise on oath never more to serve against the Helvetic nation, peaceably dismissed them, and thus accomplished their important enterprise, without the loss of a single life."

The Austrians soon invaded the country in great force, and the people were called on to sacrifice life and property in defence of their liberties. "Never did any people," observes Russell, "fight with greater spirit for their liberty, than the Swiss. They purchased it by above fifty battles against the Austrians, and they well deserved the prize for which they fought; for never were the beneficial effects of liberty more remarkable than in Switzerland." "In the meantime," continues Mr. Lyon, "I shall confine myself to a few insulated traits of character, indicating, in an eminent degree, the possession of the higher sentiments, which we have all along predicated to be necessary to the acquisition and enjoyment of freedom. The first I shall notice is their conduct in regard to the assassins of Albert, the great enemy of their liberties, who, at the very moment when he was on his march to invade the country with a powerful force, was assassinated by his nephew, with the assistance of four confidential adherents. After the deed was committed, they escaped into the cantons of Uri, Schweitz, and Underwalden, not unnaturally expecting to find an asylum among a people whom Albert was preparing unjustly to invade; 'but the generous natives,' says Coxe, 'detesting so atrocious a deed, though committed on their inveterate enemy, refused to protect the murderers,' who all subsequently suffered the punishment due to their crime."

The celebrated battle of Morgarten, in which, for the first time, the Swiss encountered and defeated the whole force of Austria, affords another striking example of the manner in which self-devotion contributes to the establishment of independence. "Leopold assembled 20,000 men, to tram

ple, as he said, the audacious rustics under his feet; but the Swiss beheld the gathering storm without dismay. To meet it, and to dispute it, 1400 men, the flower of their youth, grasped their arms, and assembled at the town of Schweitz. Veneration and all the higher sentiments were manifested, when they proclaimed a solemn fast, passed the day in religious exercises and chanting hymns, and, kneeling down in the open air, implored 'the God of heaven and earth to listen to their lowly prayers, and humble the pride of their enemies.' They took post on the heights of Morgarten, and waited the approach of the enemy. If ever there were circumstances in which they might have relaxed their rigid virtue, it was at the time when their liberties and their very existence were at stake; but even at this moment, they disdained to recruit their ranks from those whose lives had been sullied by the violation of the laws. The petition of fifty outlaws, that they might be permitted to share the dangers of the day with their countrymen, was, therefore, unhesitatingly rejected. The victory was complete. Besides those who fell in the battle, not less than fifteen hundred, most of whom were nobles or knights, were slain in the rout; and Leopold himself with difficulty escaped under the guidance of a peasant to Winterthur, where he arrived in the evening, gloomy, exhausted, and dismayed. A solemn fast was decreed to be held, in commemoration of the day, 'in which the God of hosts had visited his people, and given them the victory over their enemies;' and the names and heroic deeds of those champions who had fallen in defence of their country, were ordered to be annually recited to the people."

The history of the Dutch is somewhat similar; although not so full of noble generosity. They resisted by force of arms, and at the expense of the greatest sufferings and sacrifices, the tyranny of Spain, for the sake of liberty of conscience; and at last established at once their independence and freedom, and both they and the Swiss continue to enjoy these advantages to the present day. How unlike was the individual character of the British Americans, the Swiss, and the Dutch, to that of the Spanish Americans; and how different the uses which they have made of their independence when obtained! The last illustration with which I shall trouble you, in proof that freedom cannot exist without intelligence and morality in the people, is afforded by Sicily.

"It is well known," says Mr. Lyon,* "that, during the

* Phrenological Journal. Vol. II. p. 607.

course of the late war, the Island of Sicily was taken possession of by Great Britain; and, with a magnanimity peculiarly her own, she resolved to bestow on her new ally that form of government, and those laws, under which she herself had attained to such a pitch of prosperity and glory. Whether the zeal thus manifested to the Sicilians was a zeal according to knowledge, will immediately appear; but there can be no doubt that the gift was generously, freely, and honestly bestowed. The Sicilian government was, therefore, formed exactly after the model of the British. The legislative, executive, and judicial powers were separated; vesting the first in a parliament composed of lords and commons; the second in the king and his ministers; the last in independent judges. Due limits were set to the prerogative, by not permitting the sovereign to take cognizance of bills in progress, or to interfere in any way with the freedom of debate or the purity of election; the peerage was rendered respectable by making titles unalienable and strictly hereditary, and by forbidding the elevation to the peerage of such as were not already in possession of a fief to which a title had belonged, and whose annual income was not 6000 ounces of silver;" (of the value of 12s 6d sterling to the ounce;) or £3950 a year. "Due weight was assigned to the commons, by fixing the qualifications of members for districts at 300 ounces (or £187 10s sterling) per annum, and of members for town at half that sum—an exception being made in favour of professors of universities, whose learning was accepted in lieu of house and land; and, lastly, that the electors should be possessed of property to the amount of 18 ounces, or £11 5s; and (which was most important of all) the right of originating every tax was reserved to the commons alone."

Such is the outline of the constitution given to Sicily by the British; and the result of this experiment is contained in the following quotation from Travels in Sicily, Greece, and Albania, by the Rev. Mr. Hughes:

"No words," says he, "can describe the scenes which daily occurred upon the introduction of the representative system in Sicily. The house of parliament, neither moderated by discretion nor conducted with dignity, bore the resemblance of a receptacle for lunatics, instead of a council-room for legislators; and the disgraceful scenes so often enacted at the hustings in England, were here transferred

to the *very floor of the senate.* As soon as the president had proposed the subject for debate, and restored some degree of order from the confusion of tongues which followed, a system of crimination and recrimination invariably commenced by several speakers, accompanied with such furious gesticulations and hideous distortion of countenance, such bitter taunts and personal invectives, that blows generally ensued. This was the signal for universal uproar. The president's voice was unheeded and unheard; the whole house arose, partisans of different antagonists mingled in the affray, when the ground was literally covered with combatants, kicking, biting, scratching, and exhibiting all the evolutions of the old Pancratic contests. Such a state of things could not be expected to last a long time; indeed, this constitutional synod was dissolved in the very first year of its creation, and martial law established." Mr. Hughes thus concludes: "That constitution, so beautiful in theory, which rose at once like a fairy palace, vanished also like that baseless fabric, without having left a trace of its existence." Vol. I. pp. 5, 6, and 7.

After adverting to the utter profligacy of all ranks of the people, Mr. Hughes observes, that "no one will wonder that difficulties environed those who endeavoured to resuscitate the embers of a patriotism already extinct, and break the fetters of a nation who rather chose to hug them; that civil liberty was received with an hypocrisy more injurious to its cause than open enmity, and that, returning without any efforts of the people, it returned without vigour, and excited neither talent nor enthusiasm; that those among the higher classes who received it at all, received it like a toy, which they played with for a time, and then broke to pieces; and that the populace, having penetration sufficient to discover the weakness of their rulers, were clamorous for the English authorities to dissolve the whole constitution and take the power into their own hands." Vol. I. p. 13.

"In this instance," continues Mr. Lyon, "the institution of a representative assembly, in which unlimited freedom of debate was permitted, instead of giving rise to those calm temperate, and dignified discussions, which characterize the British house of commons, was only the signal and the scene for confusion and uproar, where Combativeness, Destructiveness, and Self-Esteem, reigned supreme, uncontrolled by Benevolence, Veneration, or Conscientiousness; and like wayward children, whom an indulgent father has for a

time left to their own government, to convince them, perhaps, of their utter inability to guide and direct themselves, and who, finding, at length, the misery of unrestrained freedom, are glad to retire to his firm but parental authority, and to surrender that liberty which they had only the power to abuse ; so the Sicilians, not only voluntarily, but even clamorously, required that their liberty should be taken from them, and begged for the establishment of martial law as a boon."

From these examples and illustrations, I trust that you are now able to distinguish between the *independence* and the *freedom* of a nation, and are prepared to agree with me in opinion, that there can be no real freedom without prevalent intelligence and morality among the body of the people.

LECTURE XVII.

DIFFERENT FORMS OF GOVERNMENT.

Despotism ; the best form of government in a rude state of society—Mixed form of government—Interests of the many sacrificed under despotic and oligarchical governments, to those of the few—Bad effects of hereditary artificial rank in its existing shape—Rational pride of ancestry, and true nobility of nature—Arguments in favour of hereditary rank considered : (1.) That it presents objects of respect to the people, and accustoms them to deference and obedience ; (2.) That it establishes a refined and polished class, who, by their example, improve the multitude ; (3.) That there is a natural and universal admiration of it, proving it to be beneficial—Bad effects of entails, and of exclusive privileges and distinctions enjoyed by individuals or classes—Forcible abolition of hereditary nobility, entails, and monopolies reprobated—Political aspect of the United States—Tendency of the mixed form of government to unfairly promote the interests of the dominant class—This exemplified in the laws of Britain, particularly those relating to the militia and the impressment of seamen—Democratic form of government—Adapted only to a state of society in which morality and intelligence have made great and general advancement—Greek and Roman republics no exception—Character of these republics—Small Italian republics of the middle ages—Swiss republics, particularly that of Bern—Democracy in the United States—No probability that the present civilized countries of Europe will ever become barbarous—Or that the United States will fall asunder or lose their freedom—Tendency of governments to become more democratic, in proportion as the people become more intelligent and moral—Groundless fears that ignorant masses of the people will gain the ascendency.

In my last Lecture I endeavoured to expound the diffe-

rence between the independence and the freedom of nations, and to trace the causes of each. I endeavoured to show that a higher degree of moral and intellectual attainments in the people is necessary to freedom, than to mere independence.

The next topic to which I advert is the different forms of government. Phrenology enables us to arrive at clear conceptions on this subject.

The animal organs are the largest, the most powerful, and (when man is uncultivated) also the most active, in the brain; and all of them aim at selfish ends. As long, therefore, as any nation continues destitute of education, and not devoted to industrious pursuits calculated to exercise the moral and intellectual faculties, it consists of hordes of human beings in whom the animal propensities predominate, and who, in consequence, are ready to embark under any bold and energetic leader, in any enterprise that promises gratification to individual interests and passion, however immoral or detrimental to the community at large. History is one great record of the truth of this remark. The only mode of preserving public tranquillity, and any semblance of law, in such a state of society, is, for one man, or a small number of individuals, superior to the rest in vigour, sagacity, and decision, to seize on the reins of government, and to rule despotically

Men in this condition are animals possessing the human form and human intelligence, but not yet the human morality, which alone causes individuals to love justice and become a law unto themselves. If the best and wisest of men were requested to devise a government for a nation of selfish and ferocious beings, possessed of intellect sufficient to foresee consequences, but not inspired with the love of justice, he would at once say that it must be one of great energy, prompt to punish, and vigorous to repress; otherwise there would be no tranquillity. A despotism, therefore, appears to me to be the form of government which naturally springs up in a very rude and barbarous country, and to be the best adapted to its circumstances.

The despot rules in the full spirit of the selfish system. He punishes through caprice as often as from just causes; and he rewards through favouritism more frequently than from perception of real merit; but, in doing so, he acts on the principles generally prevalent in his community. If he be enlightened, just, and beneficent, he may do great service to his people by instructing and civilizing them: but, as a

general rule, he will be found acting like themselves, on the purely selfish principle, and obstructing their moral and intellectual improvement whenever he discovers that their enlightenment will prove fatal to his authority.

When a nation has become partially civilized, educated, and instructed in the arts of industry, it presents the phenomena of a class whose moral and intellectual faculties have been so far developed, that they acknowledge a desire practically to pursue the dictates of morality toward their fellow-men, and to enjoy the advantages of just government themselves ; a class which would not join a leader to trample the nation at large under foot, but would rather, by their wealth and intelligence, assist the people to expel a tyrant, and establish the supremacy of equitable laws. But the number of superior men who constitute this class, live along with a vast mass of uneducated, and therefore still barbarous and selfish, individuals, who compose the great body of the people. This was the condition of Great Britain during the seventeenth and eighteenth centuries, and it is partially so at this day. The kind of government adapted to a nation thus situated, is obviously one which shall combine the force and energy of the despot, necessary to repress and punish all attempts at individual supremacy and domination, and at the same time enforce order and justice, with a due regard to the general welfare, which is desired by the most enlightened class. A mixed form of government, like the British, in which great executive power is committed to the king, but in which the enlightened classes, through their representatives in parliament, have an entire control over the enactment of laws, and also over the acts of the executive, by being entitled to vote or withhold the public supplies, is the natural result of this state of society.

The great benefit, I have said, of freedom is, that it tends to promote the general welfare ; whereas all other forms of government, whether despotic, under one supreme prince, or oligarchical, under a limited number of nobles, tend to the sacrifice of the interests of the many to the advantage of the few. In all ages and countries this has been the case, and in our own mixed form of government the evil exists, to a considerable extent.

In ancient Rome, in which the patricians or nobles ruled the state, there was a law prohibiting the intermarriage of patricians and plebeians ; that is, of the nobles and the peo

ple. In Rome, besides, all places of trust, power, and influence, were confined to the patricians, and a plebeian could not, for many ages, aspire to the honours of the consulship In France, before the revolution, only nobles could obtain military rank. In Hindostan, and in Roman Catholic countries, the priests prohibit the people at large from freely reading their scriptures or sacred books. In short, the genius of selfishness is everywhere and at all times the same; it grasps advantages for itself, and it manifests the same characteristics, whether appearing in an individual or in a class, in a political body or a religious corporation.

In a former lecture I endeavoured to point out that the institution of a hereditary nobility, protected by law in the possession of political power and exclusive privileges, without regard to individual qualities and attainments, is an infringement of the natural laws, and produces evil to the community, as well as misdirection of the ambition of the parties thus exalted. I now observe, in reference to the mixed form of government, like that of Britain, that the existence of a noble or privileged class is one of its characteristic features, and is the natural result of a portion of the people having far outstripped the mass in wealth, intelligence, and refinement. Of course, it may be expected to endure as long as the great inequality in these particulars, on which it is founded, exists.

The mixed form of government itself obviously springs from a numerous class having considerably preceded the mass of the people in intelligence and moral attainments; and it exhibits the spectacle of that class becoming the depositaries of political power, the upper portion exercising the function of legislators directly in their own persons and the inferior portion enacting laws by means of their representatives, leaving no political influence whatever in the hands of the majority of the people. It is the genius of this form of government to confer privileges on classes, and hence the highest members of the ruling body easily induced the king to bestow on them the character of nobility and the right of hereditary legislation; but as the great principle of doing to another as we would wish another to do to us, leads, in its general application, to the removal of all distinctions not founded on real superiority, the existence of this class becomes, in course of time, an obstacle to general improvement. There is one principle, however, equally

clearly taught, both by Christianity and by the doctrine of the supremacy of the moral sentiments—that the only beneficial manner of producing a moral equality is, by improving and raising up the lower, and not by pulling down the higher, classes, possessed of superior attainments. As long, therefore, as the class of nobles are superior in intellect, moral qualities, and education, to the great body of the people, their superiority is real; and they would maintain this superiority, although they possessed neither titles nor exclusive privileges. This has long been the state of Britain, and is so, to a considerable extent, still. In a former lecture I pointed out that hereditary rank and superiority is in opposition to nature, unless the organic laws are obeyed, and that then statutes are not needed to transmit property and honour to posterity. Those who transmit high moral, intellectual, and physical qualities to their offspring, confer on them the stamp of nature's nobility, and they need no other.

When the Creator bestowed on us Veneration, prompting us to reverence high qualities and attainments, and Love of Approbation, desiring distinction for ourselves, He must have intended that these faculties, in selecting their objects, should be guided by reason, morality, and religion; yet the creation of artificial, and especially hereditary, rank, which shall enable its possessor, independently of his mental qualities, to assume superiority over, and take precedence of, other men, even when these are more virtuous, more learned, more useful, and more highly accomplished than himself, is in direct opposition to this maxim, and must, therefore, manifestly be an abuse. The grand argument by which it is defended is, that, by presenting objects of *established* respect and consideration to the people, we accustom them to the practice of deference and obedience, and thereby promote the tranquillity of the state. It is argued also, that, by instituting a class of nobles, a branch of society is formed which will cultivate, as their especial province, taste, refinement, and all the elegancies of life, and improve the inferior members of the social body by their example. It is farther maintained, that such a class is natural, and has existed in almost all countries, and must therefore be advantageous. In a certain state of society, these reasons have some weight; but my position is, that, when the general body of the people become enlightened, these advantages disappear, and a hereditary nobility becomes a positive evil

I beg leave, however, to state, that I do not propose to abolish hereditary and artificial rank by violence, and against the will of its possessors. The grand principle which I have advocated in these lectures, that all real improvement must proceed from the supremacy of the moral and intellectual faculties, forbids such a project. My aim is, to render nobles ashamed of hereditary titles, decorations, and privileges, which testify nothing in favour of their merit; and I regard this as undoubtedly practicable, in the course of a few generations, merely by enlightening their superior faculties. If you trace the forms in which Self-Esteem and Love of Approbation seek gratification in different stages of social improvement, and how these approach nearer and nearer to reason, in proportion as society becomes enlightened, you will not consider this idea chimerical. In the "Constitution of Man" I have remarked, that the tatooed skin, and nose transfixed with ornamental bones, are fondly desired, profoundly respected, and greatly prized by the savage. These are the external signs of his consequence, the outward symbols by which his Self-Esteem and Love of Approbation demand and receive the homage of inferior men. But a very limited advance in civilization destroys the illusion. It is seen that these are mere physical ornaments, which bespeak nothing but the vanity of the wearer; they are, therefore, ridiculed and laid aside.

Ascending to a more refined yet still barbarous age, you find the marks of distinction which were formerly prized in our own country, a full-bottomed wig and cocked hat, ruffles at the wrists, a laced waistcoat, and buckles in the shoes. A century ago, when a man appeared thus attired in any public assembly of the common people, place was given to his rank, and respect was paid to his dignity, as if he had been of a superior nature. But when, in the progress of enlightenment, it was discovered that these outward testimonials of greatness were merely the workmanship of barbers and tailors; men who enjoyed any real mental superiority, who were distinguished by refinement of manners and the other qualities of a true gentleman, became ashamed of them, and preferred to wear plain yet elegant attire, and to trust to their manners and the discrimination of the public for being recognised as of superior rank, and being treated accordingly; and they have been completely successful. A gentleman in the trappings of the year 1700

appearing in our streets now, would be regarded as insane, or as facetiously disporting himself in order to win a wager.

The progress of reason which has swept away tatooed skins, bone ornaments in the nose, full-bottomed wigs, and laced waistcoats, will one day extinguish orders of knighthood, coronets, and all the other artificial means by which men at present attempt to support their claims to respect and consideration, apart from their personal qualities and virtues. They will be recognised by the wearers as well as by the public, as devices useful *only to the unworthy*. An advanced education and civilzation will render men acute observers of the real elements of greatness, and profound admirers of them, but equally intolerant of tinsel impositions.

Perhaps you do not perceive that society will have gained much even when this change shall have been accomplished, if it shall ever take place. But I anticipate decided advantages from it. Self-Esteem and Love of Approbation exist, and they are large and powerful organs. The feelings with which they inspire the mind will never be extinguished; their *direction* only can be changed. When we contemplate the history of the world, and perceive what laborious, painful, and dangerous enterprises men have undertaken and accomplished, and what privations and positive sufferings they have submitted to, in order to obtain gratification to these two faculties, we may form some estimate of the impulse which would be given to physical, moral, and intellectual improvement, if they were withdrawn from the worship of idols, and directed according to reason. Men will always desire to be nobles, to stand in the highest rank, to be respected, and to be treated with consideration by their fellow-men, as long as Self-Esteem and Love of Approbation exist; but their notions of what constitutes nobility and high rank will change, as their minds become enlightened. Under the system of nature, a family would esteem itself noble, when it was able to show in its genealogy a long line of healthy, handsome, refined, moral, intelligent, and useful men and women, with few profligates and few imbeciles; and an individual who claimed the consideration of society, would present high attainments, pure morals, and refined manners, before an intelligent public, and feel secure of commanding a willing homage.

If you conceive nobles and individuals of high rank and remote ancestry animated by such motives, and setting such

examples before their inferiors, how powerful would the impulse to improvement be, compared with what it must always continue, while men overlook the real elements of greatness in the gratification of their ambition, and aim chiefly at the external symbols of a pampered vanity, which elevate the undeserving to a level with the most accomplished, and misdirect the aspirations of the whole community.

We are now prepared to answer the arguments by which hereditary rank and artificial nobility are defended, as advantageous in the present state of Britain. The first is, that their existence presents objects of respect to the common people, and accustoms them to deference and obedience. I reply, that the common people respected the decorations of rank, the wig, the ruffles, and the waistcoats, of the last century, only while they were deplorably ignorant; and in like manner, they can regard, with deference and awe, ancient titles apart from merit only while they continue in the same condition. The moment they become sufficiently enlightened and independent in their moral and intellectual judgments, they will cease to admire hereditary rank without high qualities. It is neither moral, safe, nor advantageous, therefore, to set up, as a means of cultivating the respectful feelings of the people, objects that will not bear the investigation of enlightened reason, and the end in view cannot be attained by such a method.

The second defence of hereditary nobility is, that, by instituting it, you establish a separate class dedicated to refinement, taste, and elegance, who, by their example, will improve the inferior orders. The answer is, that all these qualities are essential elements in nature's nobility, and, after a certain stage of social enlightenment has been reached, they will be assiduously cultivated for their own sake, and that of the distinction which they will confer; and, therefore, that the only effect of patents of rank is to preserve individuals in possession of the outward advantages generally paid to these high attainments, without having them in their minds I am a strong advocate for refinement, and clearly perceive that the higher classes possess much more of it than the middle and lower ranks; and, viewing it as one important element in a truly excellent and noble character, I am anxious to see it prized and more widely sought after by the lower grades. But I believe that the best way to bring about this result is, to dissipate the essentially vulgar illusion, that

descent, title, or any artificial or accidental circumstance, can produce it, or can exclude any individual from attaining it; and thereby induce all to esteem it for its own sake, and to respect those only who really possess it.

The third argument in favour of hereditary and artificial rank is, that the admiration of it is natural, and has existed in all ages and countries, and that it must, therefore, be beneficial. I have explained, that the faculties of Veneration, Self-Esteem, and Love of Approbation are all natural, and that one of their tendencies is to respect and esteem ancient descent and superior qualities. The only difference between the admirers of things as they are and myself, consists in this—that they present artificial objects to which these faculties may be directed, and which objects, when examined by reason, are found to be unworthy of enlightened regard; whereas, I propose to have them directed only according to reason, to objects pleasing at once to the understanding, the moral sentiments, and to these faculties themselves.

At present, it is the interest of artificial nobles to keep the people ignorant, rude, and superstitious; because men in such a condition are best fitted to worship idols; and, accordingly, the most purely aristocratic, unintellectual, and poorly gifted peers, have always been the greatest opponents of the emancipation, education, and elevation of the people; while, on the contrary, all the truly noble minds born among the aristocracy—those on whom Nature has set the stamp of moral as well as intellectual greatness—have been the friends and willing benefactors of the people. And if there were no nobility except that of Nature, her nobles would be prompted by interest as well as inclination, to promote the improvement and elevation of all classes, because they would feel that their own rank, happiness, and usefulness depended on having a cultivated, discriminating, moral, and intellectual community for their associates and admirers.

I have dwelt on this subject longer than some of you may consider to have been necessary; but the same principles have a wide application. They lead us to the conclusion, that hereditary entails, as constituted in Scotland, ought also to be abolished. An entail is a deed in law executed by the proprietor of an estate, by which he calls a certain series of heirs to perpetual enjoyment of the rents, or produce, or possession of the land, but without allowing to any of them a right of property in itself. None of them can sell the

estate, or burden it with debt, beyond his own life-time, or give it to a different order of heirs from those pointed out in the deed of entail. If, for example, the property be destined to heirs-male, the present possessor may have a daughter, who is the apple of his eye and the treasure of his heart, and no male relation nearer than a tenth cousin, and this cousin may be a profligate of the most disgraceful description; but the law is blind—the daughter can inherit not one acre of the vast domain, and the remote and unworthy male takes it all. This, however, is comparatively the least of the evils attending entails. Their existence maintains in an artificial rank, and in possession of great wealth, and consequently influence, individuals who, by their natural qualities, ought to stand at the bottom of the social scale, and who, like the hereditary nobility, operate as idols on the minds of the aspiring and rising of the middle and lower ranks, leading them to an insensate worship of aristocratic rank. They give them the tendency to overlook all the natural elements of real greatness and goodness, and to trust in the devices of "princes and men's sons" for the gratification of their ambition.

Many persons may imagine that this is a small social evil, affecting only the individuals who give way to this idol worship, and who, they suppose, are not numerous. But the evil appears to me to be of greater magnitude, and to lead to more extensive consequences. It supports, by the sanction of law, the erroneous principle of preserving, by artificial means, social greatness and influence to individuals, independently of their natural qualities; and this directly tends to encourage all classes to overlook or undervalue natural excellence, and strive only to attain wealth, and to preserve it in their families, by the aid of legal technicalities, against the law of God and the welfare of their fellow-men. This averting of the general mind from the real principles of social improvement, and giving it a false direction, appears to me to be the worst evil attending all artificial systems for preserving family distinctions. The class which is thus supported has many powerful motives for improvement withdrawn from it: it leans upon crutches, and therefore rarely exercises its muscles; and, as a natural consequence, it looks with an indifferent, if not a hostile, glance on all its inferiors who are labouring to attain that excellence with which it dispenses in itself. A great deal of the resistance and the lukewarmness, if not positive aversion, of the higher ranks,

to the instruction and refinement of the people, may be traced to the consciousness that their own pretensions rest, to a great extent, on an artificial basis, and on illusions which would yield before advanced and generally diffused civilization.

The same arguments which I have now employed against artificial rank and entails, apply to all exclusive privileges and distinctions conferred by law on individuals or classes independently of their merits. The social institutions of every country in Europe have been overrun, more or less, with such abuses. In France, before the revolution, every class of the people except the lowest, had its exclusive privileges, and every town and department its selfish rights of monopoly or exemption, which were maintained with all the blind avidity usually displayed by an unenlightened selfishness. The revolution swept these away, and made all France and all Frenchmen equal in their rights and privileges, to the great advantage of the whole nation. In our own country, the spirit of reform is busy extinguishing similar marks of barbarism, but they are still clung to with great affection by the true adherents of the individual interest system.

The brief limits of this course prevent me from entering into farther details on this subject, but I again beg of you not to misunderstand me. He who should go forth from this hall, and report that the great object of my lectures on moral philosophy was to recommend the abolition by force of hereditary nobility, entails, and monopolies, would not do me justice. The real object of this course has been, to show that men must obey the laws of God before they can be happy—one of which laws is, that we should love our neighbours as ourselves, or, in other words, embrace practically the great truth that individual enjoyment is inseparably connected with, and dependent on, social welfare; that, to promote the general welfare, it is necessary to render all the members of the community alive to its improvement, and to withdraw from them all artificial means of propping up their individual fortunes and rank, independently of virtue; that hereditary titles, entails, and other exclusive privileges of classes and individuals, are the fortifications in which the selfish principle entrenches itself, in order to resist and obstruct general improvement, and that on *this account* they ought to be undermined and destroyed. I have endeavoured to show that the classes who now imagine themselves to be benefited by them, would actually profit by their

abolition, by being directed into the true path to happiness and virtue; and I propose, by enlightening their understandings, and elevating the standards of public approbation, to induce a voluntary surrender of these distinctions, and not a forcible abrogation of them. Ages may elapse before these results will be accomplished, but so did many centuries intervene between the painted skins and the laced coat; and so did generations pass away between the embroidered waistcoats and our own age; yet our day has come, and so will a brighter day arrive, although *we* may be long removed from the scene before it dawns.*

The great characteristic of the mixed form of government is its tendency to promote the interests of the classes who wield political power to the injury of the others. Ever since Britain apparently attained freedom, there has been an evident system of legislating for the advantage and gratification of the dominant class. The laws of primogeniture, of entails, and of the non-liability of heritable property

* Since the text was written, I have lived for twenty months in the United States of North America, where no hereditary nobility, no privileged classes, and no entails exist. It is impossible not to perceive that, in their absence, the higher faculties of the mind have a freer field of action. At the same time, truth compels me to remark, that as they were abolished in the United States by a sudden exercise of power, and as a system of equality was introduced as the result of a successful revolution, and did not arise spontaneously from the cultivation of the public mind and the developement of the moral and intellectual faculties of the people, the democracy of the United States does not present all that enlightenment of the understanding, that high-minded love of the beneficial and the just, that refinement of manners, and that well regulated self-control which constitute the most valuable fruits of political freedom. In the United States the selfish faculties appear to me to be as active and as blind as in Britain. The political institutions of the country are in advance of the mental cultivation of the mass of the people; and the most cheering consideration for the philanthropist, in the prospect of the future, is the fact, that these institutions having given supreme power to the people, of which there is no possibility of depriving them, it is equally the interest and the duty of men of all ranks and conditions to concur in elevating the people in the scale of moral, religious, and intellectual improvement, so as, in time, to render them worthy of their high calling among nations. Much remains to be accomplished.

for personal debts, (which last long prevailed in England,) were all instances in which the aristocracy legislated for themselves, at the expense of the people. The game-laws, the corn-laws, and the timber-duties, are additional instances. In proportion, again, as the mercantile classes acquired political power, they followed the same example. They induced parliament to pass acts for encouraging the shipping interests, the fisheries, the linen manufacture, and a great variety of other interests, by paying, out of the public purse, direct bounties to those engaged in them, or by laying protecting duties, to be paid by the public, on the rival produce of foreign nations. In the administration of public affairs the same principle was followed. The army and navy, the church and the colonies, and all other departments of the public service, were converted into great pasture fields for the sons and political dependents of the aristocracy ; while there were combination-laws against the labouring classes, to punish them for uniting to raise the price of their labour, and laws authorizing sailors to be impressed and forced to serve in the navy, at wages inferior to the common rate allowed in merchants' ships ; and even the militia-laws, although apparently equal, were actually contrived to throw the whole burden of service on the lower orders. The penalty on men of all ranks for non-appearance to be enrolled was £20. This, to a labouring man whose income was 10s a week, was equal to forty *weeks*' labour ; or, to an artisan who earned 20s a week, it was equal to twenty *weeks*' wages. To a master-tradesman, a merchant, professional man, or small proprietor, whose revenue was £365 per annum, it was equal only to twenty *days*' income. To have produced equality, the fine ought to have been computed at the amount of a certain number of days' income for all classes. According to this rule, a man having £360 per annum of income, would have paid £140 of fine, when a mechanic, who earned 20s a week, would have paid £20, or a labourer, with 10s a week, £10. A great proprietor, enjoying £50,000 a year, would then have paid £20,000 of fine for exemption from service in the militia.

If the operative classes had had a voice in parliament proportionate to their numbers, there is no doubt that this would have been the rule ; and if so, it would have rendered the militia system so intolerably burdensome to the middle and higher classes, that its existence would have been brief.

and means might perhaps have been discovered for bringing the last French war to a more speedy termination.

The great argument in my mind for abolishing impressment is, that, when sailors must be enticed by high wages and good treatment into the service of the country, it will be necessary for naval officers to become moral, intelligent, and amiable, because it will only be by such qualities that they will be able to retain crews in their ships, and preserve authority over them. Sailors themselves, by being well treated, will be improved. War will be softened in its horrors, when waged by men thus civilized; and I hope that the additional costliness of it, on such a system, will tend to cause the public generally to put an end to it altogether. If I am right in these views, the mixed form of government is one adapted to a particular stage of civilization, that in which an intelligent class coexists with an ignorant mass; but it is not the perfection of human institutions.

The next form of government presented to our consideration is the *democratic*, or that in which political power is deposited exclusively in the people, and by them delegated to magistrates, chosen, for a longer or shorter period, by themselves.

If the world be really governed by God on the principle of supremacy of the moral and intellectual faculties, our social miseries must arise from individuals and classes pursuing their separate interests, regardless of those of the rest of the community; and, in this view, the sooner all ranks enjoy political power, the sooner will legislation assume a truly moral character, and benefit the entire nation. But keeping in view the other principle which I have endeavoured to expound—that men are incapable of steadily pursuing moral and just objects, until their moral and intellectual faculties have obtained the ascendency, and that this can be realized only by the sedulous training of their moral sentiments, and the enlightenment of their understandings by education—you will perceive that no nation can become fit for a republican form of government, until all classes of the people are nearly equally advanced in morality, intelligence, and civilization. The ancient republics of Greece and Rome form no exceptions to this rule. They were confined to a very small territory, and the whole citizens of each republic were for many ages within reach of personal communication with each other, so that there existed some

degree of equality of intelligence among them. Whenever their empire became extensive, their free government ceased, and was superseded by despotism. But these ancient republics were never moral institutions. Their freedom resulted from the equal balance of the power of the different classes of which they were composed; or from the rivalry of their different orators and leaders, who destroyed each other, as they respectively attempted to usurp an undue share of authority. The people in their assemblies, and the senators in their senates, were often guilty of the most unjust and unprincipled tyranny against individuals; and altogether, the boasted liberties of Greece and Rome appear only as the results of the struggles of equal combatants, who agree to live on terms of mutual toleration, because they have discovered their inability to succeed in usurpation. The reason of this is obvious. There were in those states no true religion, no moral training, no printing presses, and no science of nature. The great mass of the people were ignorant; and phrenology shows us that although a people enjoying large brains and active temperaments, situated in a fine climate, but destitute of moral and intellectual training, may have been ingenious and acute, yet they must necessarily have been turbulent and immoral; and such these ancients really were. Their records which have reached us, are the works of a few distinguished men who arose among them, and who certainly displayed high genius in the fine arts, in literature, and eloquence; but these were the educated and the talented few. From the very necessity of their circumstances, without science, and without printed books, the mass of the people must have been profoundly ignorant, the slaves of the animal propensities. Their domestic habits, as well as their public conduct, show that this was the case. The popular religion of the ancient nations was a mass of revolting absurdities and superstitions. Their wives were mere domestic drudges, and their hours of recreation were devoted to concubines. Their public entertainments were sanguinary combats, in which ferocious men put each other to death, or in which wild animals tore each other to pieces. All labour was performed by slaves, whom they treated in the cruelest manner. They pursued war and conquest as their national occupations, and in their public acts they occasionally banished or condemned to death their best and most upright citizens. These are facts,

which we read of in the histories of Greece and Rome. They exhibit the vigorous ascendency of the animal propensities, and the feeble power of the moral sentiments, as clearly as if we saw the barbarous crowds standing in all their prowess and ferocity before us.

In the middle ages, a number of small republics sprang up in Italy, and we are dazzled by representations of their wealth, magnificence, and freedom. One observation applies to them all. They exhibited the dominion of an oligarchy over the people, and the ruling classes practised the most disgraceful tyranny wherever they were not restrained by fear of each other. Most of them ultimately fell before the power of the larger monarchies, and are now extinct.

Switzerland presents a brighter prospect. As it was the first country in Europe which acquired freedom, so has it longest preserved the blessing. The moral and intellectual qualities of the people, which I described in my last lecture, fitted them for free governments, and the Swiss nation constituted itself into a congeries of republics, acting in federation, but each independent in its internal administration. In the course of time power fell into the hands of an aristocratic class there, as in Italy, but the native qualities of the Swiss mind seem to have warded off the consequences which in other countries generally ensued. "The members of the sovereign council of Bern," we are told,* "were elected for life, and every ten years there was an election to supply the vacancies that had occurred during that period. The counsellors themselves were the electors; and as old families became extinct, and as it was a rule that there should not be less than eighty families having members in the great council, vacancies were supplied from new families of burghers. Still, the number of families in whose hands the government was vested was comparatively small; and several unsuccessful attempts were made, in the course of the eighteenth century, to alter this state of things, and to reinstate the assemblies of the body of the burghers. The discontent, however, was far from general, and it did not extend to the country population. The administration was conducted in an orderly, unostentatious, and economical manner; the taxes were few and light. 'It would be difficult,' says the historian Müller, 'to find in the history of the world a commonwealth which, for so long a period, has been

* Penny Cyclopædia, article BERN; Vol. IV. p. 304.

so wisely administered as that of Bern. In other aristocracies the subjects were kept in darkness, poverty, and barbarism; factions were encouraged among them, while justice winked at crime or took bribes; and this was the case in the dependencies of Venice. But the people of Bern stood, with regard to their patricians, rather in the relation of clients toward their patrons, than in that of subjects toward their sovereigns.' Zschokke, a later Swiss historian, speaking of Bern and other aristocracies of Switzerland, says, 'They acted like scrupulous guardians. The magistrates even the highest among them, received small salaries; fortunes were made only in foreign service, or in the common bailiwicks of the subject districts. Although the laws were defective and trials secret, the love of justice prevailed in the country; power wisely respected the rights of the humblest freeman. In the principal towns, especially the Protestant ones, wealth fostered science and the fine arts. Bern opened fine roads, raised public buildings, fostered agriculture in its fine territory, relieved those districts that were visited by storms or inundations, founded establishments for the weak and the helpless, and yet contrived to accumulate considerable sums in its treasury. But the old patriotism of the Swiss slumbered; it was replaced by selfishness, and the mind remained stationary; the various cantons were estranged from each other; instructions spread in the towns, but coarseness and ignorance prevailed in the country.' The consequence of all this was, that, when the storm came from abroad, it found the Swiss unprepared to face it. The French republic, in its career of aggression, did not respect the neutrality of Switzerland," but seized upon its territory and treasures, and inflicted on it the greatest calamities. In 1815, an aristocratical constitution was given to Bern, under the sanction of the allied powers who dethroned Napoleon; but, in 1830, the canton of Bern, and several others, again changed their government, and became a democratic republic. "The new constitution has now (1835) been in force for more than three years; notwithstanding some heart-burnings and party ebullitions, things appear to be settling into a regular system, and no act of violence or open bloodshed has accompanied the change."

This account of Bern appears remarkable, when compared with the history of other republics, the ruling factions of which, when allowed the privilege of self-election, life-

tenures of office, and freedom from responsibility, invariably became selfish and unprincipled tyrants, converting the laws into engines of oppression, and the revenues of the state into sources of private gain. I can account for the superiority of the Swiss only by the larger endowment of the moral and reflecting organs in their brains, which seems to have been a characteristic feature in the people from a very remote period, and which still continues. The Swiss skulls in the possession of the Phrenological Society, presents higher developements of the moral and intellectual organs, than those of any other of the continental nations which I have seen. The Germans, who are originally the same people, in some districts resemble them; but they vary much in different places. The Swiss brain, I may notice, is not equally favourably developed in all the cantons. In Bern, Geneva, and Zurich, the combinations are the best; at least, this struck me, in travelling through the country.

I introduce these remarks, to direct your attention to the fact, that the native quality of the mind of the people is a most important element in judging of the adaptation of any particular nation for any particular form of government; a principle which is entirely lost sight of by those philosophers who believe that all men are naturally equal in their native dispositions and intellectual capacities, and that a free government is equally suited to all.

The conclusion, in regard to the republican form of government, which I draw is, that no people is fit for it, in whom the moral and intellectual organs are not largely developed, and in whom also they are not generally and extensively cultivated. The reason is clear. The propensities being all selfish, any talented leader, who will address himself strongly to the interests and prejudices of an ignorant people, will carry their suffrages to any scheme which he may propose, and he will speedily render *himself* a dictator and *them* slaves. If there be a numerous dominant class equally talented and enlightened, the individuals among them will keep each other in check, but they will rule as an oligarchy, in the spirit of a class, and trample the people under their feet. Thus it appears, that, by the ordination of Providence, the people have no alternative but to acquire virtue and knowledge; to embrace large, liberal, and enlightened views, and to pursue moral and beneficial objects —or to suffer oppression. This is another of the proofs that

the moral government of the world is based on the principle of the supremacy of the moral sentiments and intellect; for, turn where we will, we find suffering linked with selfishness, and enjoyment with benevolence and justice, in public as well as in private affairs.

The United States of North America present the best example of a democracy which has hitherto appeared in the history of the world. Power is there lodged with the entire people; and their magistrates, from the lowest to the highest, are truly the delegates of the national authority. Yet, in the older states of the Union, life and property are as secure as in any country in the world, and liberty is more complete. In my last lecture I traced, in the history of this people, their preparation for freedom. The founders of American society were moral, religious, and industrious men, flying from injustice and oppression; and were, therefore, probably men of the keenest moral and religious feelings of the old world, at the time when they emigrated to the shores of America. Their ranks continued to be recruited from the industrious and enterprising of Europe; and hence, when they threw off the yoke of Britain, the *material* of the states consisted chiefly of minds of the best quality. Since they acquired their independence, they have continued to advance in education, morality, and intelligence; and, in conformity with the principle which I am now expounding, it is generally admitted, that the extent of education is considerably higher there than in any other country in the world. In Britain and France you will find more *highly* educated men; but beside them you will perceive countless multitudes of human beings enveloped in the profoundest ignorance. In America you will meet with few men of such high culture and attainment as England and France can boast of; but you will look in vain for the masses of uneducated stolidity which are the disgrace of Europe The American people are *nearly all* to some extent educated They are not only able, on an emergency, to read and write, but they are in the daily habit of reading; and they understand the great principles of morals, political economy, and government, better than the uneducated classes of this country. The coexistence of the greatest freedom, therefore, with the highest general intelligence, in America, is in harmony with the doctrines which I am now endeavouring to expound.*

* The observations in the text were written before I had visit-

The history of the world has shown nations degenerating and losing the independence and freedom which they once possessed, and it is prophesied that America will lose her freedom, and become a kingdom in the course of years; or, that her states will fall asunder and destroy each other. It is supposed, also, that the civilized nations of Europe will become corrupt, and, through excessive refinement, sink

ed the United States, and were founded on such information as I had then obtained from communications with individuals who had lived in them, and from books. After having had the advantages of personal observation, I print the text as essentially correct; but I find that I had over-estimated the attainments of the mass of the people in the United States. The *machinery* for education which they have instituted, and which they support by taxation or voluntary contribution, is great and valuable, and rather exceeds than falls short of my preconceived opinions; but the *quality and quantity* of the education dispensed by it are far inferior to what I had imagined. The *things taught* and the *modes of teaching*, in the public or common schools, which educate the people, are greatly inferior to what are found in the improved schools of Britain. While, therefore, I confirm the observation in the text, "that the people generally understand the great principles of morals, political economy, and government, better than the uneducated classes of Britain," I must add the qualification that the difference between the two is only like that between moonlight* and the light of the stars In regard to the scientific principles of morals, political economy, and government, especially of the first and the second, the people of the United States appear to me to be greatly in the dark. At the same time, there are many enlightened philanthropists among them who see and deplore this ignorance, and are labouring assiduously, and I have no doubt successfully, to remove it. The impulse toward a *higher* education is, at this time, strong and energetic; and as the Americans are a *practical* people, I anticipate a great and rapid improvement. In Massachusetts, the Hon. Horace Mann is devoting the whole powers of his great and enlightened mind to the advancement of the common schools, and he is ably and zealously seconded by the government and enlightened coadjutors. The results cannot fail to be highly advantageous. The people of the United States owe it to themselves, and to the cause of freedom all over the world, to exhibit the spectacle of a refined, enlightened, moral, and intellectual democracy. Every male above twenty-one years of age among them, claims to be a sovereign. He is, therefore, *bound to be a gentleman.*

* An American gentleman, who is much interested in his country's welfare, on reading this passage, remarked, "You may say moonlight when the moon is in the first quarter."

into effeminacy, and proceed from effeminacy to ignorance, from ignorance to barbarism, and thence to dissolution. This has been the fate of the great nations of antiquity, and it is argued that as there is nothing new under the sun, what *has* been, *will be*, and that the ultimate destruction of European civilization is certain; while it is admitted that freedom, and art and science, may flourish in some other region of the globe. The principle in philosophy, that similar causes, in similar circumstances, produce similar effects, admits of no exception; and if modern Europe and the United States of America were in the same condition with the monarchies and republics of the ancient world, I should at once subscribe to the conclusion. But in the ancient governments the mass of the people, owing to the want of printing, never were educated nor civilized, and even the attainments of the ruling classes were extremely limited. They had literature and the fine arts, but they had no sound morality, no pure religion, little science, and very few of the useful arts which have resulted from science. The national greatness of those ages, therefore, was not the growth of the common mind, but arose from the genius of a few individuals, aided by accidental circumstances. It was like the dominion of France in our own day, when the military talents of Napoleon extended her sway from Naples to Moscow, and from Lisbon to Vienna; but which, resting on no superiority in the French people over the people of the conquered nations, was dissolved in a day, even under the eye of the commanding genius who had raised it.

When we apply the history of the past as an index to the events of the future, the condition of *like circumstances* is wanting; for Europe and the United States are in the progress of presenting, for the first time in the world, the spectacle of an universally educated people; and, on this account, I do not anticipate the possibility of civilization perishing, or modern nations becoming effeminate and corrupt. The discovery of the natural laws, and those of organization in particular, will guard them against this evil. It is true, that only a few states in Europe have yet organized the means of universally educating the people; but Prussia, France, Holland, and Switzerland have done so, and Britain is becoming anxious to follow their example. The others must pursue the same course for their own security and welfare. A barbarous people cannot exist in safety beside enlightened nations.

For the same reasons, I do not anticipate the dissolution of the union of the States of America, or that they will lose their freedom. They are advancing in knowledge and morality; and whenever the conviction becomes general that the interests of the whole states are in harmony, which they undoubtedly are, the miserable attempts to foster the industry of one at the expense of another will be given up, and they may live in amity, and flourish long, the boast of the world, so far as natural causes of dissolution are concerned. This expectation is founded on the hope that they will give a *real* education to their people; an education which shall render them conversant with the great principles of morals and political economy; so that they may know that there is a power above themselves, that of nature and nature's God, whose laws they must obey before they can be prosperous and happy. I assume, also, that means will be found to expunge the blot and pestilence of slavery from their free institutions. It is a canker which will consume the vitals of the Union, if it be not in time eradicated. These expectations may appear to some to be bold and chimerical; but truth's triumphs have no limits; and justice, when once recognised as a rule of action, which it emphatically is in the institutions of the United States, cannot be arrested midway in its career.

From the principles now laid down, it follows that the tendency of all governments, in modern times, is to become more democratic in proportion as the people become more intelligent and moral. Since 1831, our own government has been much more under the influence of the people than at any previous period of our history. Those who feel alarm at the march of democracy, read history without the lights of philosophy. They have their minds filled with the barbarous democracies of Greece and Rome, and of the French revolution, and tremble at the anticipated rule of an ignorant rabble in Britain. On the other hand, the only democracy which I anticipate as capable of gaining the ascendency here, will be that of civilized and enlightened, of moral, and refined men; and if the principles which I have expounded be correct, that the higher sentiments and intellect are intended by Nature to govern, it will be morally impossible that, where an enlightened and an ignorant class coexist, as in Britain, the ignorant can rule. In France the reign of the ferocious democrats was short-lived; the superior class gradually prevailed, and the reign of terror

never was restored. In the ancient democracies there was no enlightened class comparable with that of Britain. I regard, therefore, the fears of those who apprehend that the still ignorant and rude masses of our country will gain political power, and introduce anarchy, as equally unfounded with the terror that the rivers will some day flow upward, and spread the waters of the ocean over the valleys and the mountains. The laws of the moral are as stable as those of the physical world; both may be shaken for a time by storms or convulsions, but the great elements of order remain for ever untouched, and after the clearing of the atmosphere they are seen in all their original strength and beauty. The result which I anticipate is, that edecation, religion, and the knowledge of the natural laws, will in time extend over all classes of the community, till the conviction shall become general, that the Creator has rendered all our interests and enjoyments compatible; and that then all classes will voluntarily abandon exclusive privileges, unjust pretensions to superiority, and the love of selfish dominion —and establish a social condition, in which homage will be paid only to virtue, knowledge, and utility, and in which a pure Christian equality, founded on the principle of doing to others as we would wish others to do unto us, will universally prevail. These days may be very distant; but causes leading to them appear to me to exist, and to be already in operation; and I hope that, in giving expression to these anticipations, I am stating the deductions of a sound philosophy, and not uttering the mere inspirations of a warm imagination. At all events, this theory, which places independence, freedom, public prosperity, and individual happiness, on the basis of religion, morality, and intelligence, is ennobling in itself, and cannot possibly deceive us; because, however far mankind may stop short of the results which I have anticipated, and for the realization of which I allow centuries of time, it is certain that by no *other* path can they attain to any solid enjoyment, while for every step that they shall advance in this one, they will reap a corresponding reward.*

* A cheering sign of improvement is presented in the superior works that are now prepared for the instruction of the people both in this country and in the United States. "The School Library," published under the sanction and by authority of the Board of Education of the state of Massachusetts, by

LECTURE XVIII.

RELIGIOUS DUTIES OF MAN.

Consideration of man's duties to God, so far as discoverable by the light of nature—Natural theology a branch of natural philosophy—Not superseded by revelation—Brown, Stewart, and Chalmers quoted—Natural theology a guide to the sound interpretation of scripture—Foundation of natural religion in the faculties of man—Distinction between morals and religion—The Bible does not create the religious feelings, but is fitted only to enlighten, enliven, and direct them—Illustration of this view—Stability of religion, even amid the downfall of churches and creeds—Moral and religious duties prescribed to man by natural theology—Prevalent erroneous views of divine worship—Natural evidence of God's existence and attributes—Man's ignorance the cause of the past barrenness and obscurity of natural religion—Importance of the Book of Creation as a revelation of the Divine Will.

Having discussed the foundation of moral philosophy, the duties of man as an individual and as a social being, and also the causes of the independence and freedom of nations, with the relations of the different forms of government to the moral and intellectual conditions of the people, I proceed to consider man's duty to God, so far as this can be discovered by the light of nature.

Lord Brougham, in his "Discourse of Natural Theology," maintains, with great truth, that natural theology is a branch of natural philosophy. His argument is the following: It is a truth of physics, that vision is performed by the eye refracting light, and making it converge to a focus upon the retina. The eye is an optical instrument, which, by the peculiar combination of its lenses, and the different materials they are composed of, produces vision. Design and adaptation are clearly manifested in its construction. These are truths in natural philosophy; but a single step converts them

Messrs. Marsh, Capen, Lyon, and Webb, of Boston, contains volumes replete with instruction, and characterized by good taste. The state of New York, likewise, has established a fund for supplying schools with good libraries. Private individuals, also, are contributing important works to the education of the people. Among these, I have recently seen one that was much wanted, and is now admirably supplied by E. P. Hurlbut, Esq., namely, a work on "Civil Office and Political Ethics." The "Ethics" are obviously founded on the new philosophy.

into evidences in natural theology. The eye must have been formed by a Being possessing knowledge of the properties of light, and of the matter of which the eye is composed: that Being is no inhabitant of earth: He is superior to man: He is his Maker: He is God. Thus, the first branch of natural theology, or that which treats of the existence and power of the Deity, rests on the same basis with physical science; in fact, it is a direct induction from the truths of science.

The second branch of natural theology treats of the duties of man toward God, and of the probable designs of the Deity in regard to his creatures. The facts of mental philosophy stand in the same relation to this branch, that the facts in physical science stand in relation to the first branch. By contemplating each mental faculty, the objects to which it is related by its constitution, its sphere of action, its uses and abuses, we may draw certain conclusions regarding his intentions in creating our faculties, and touching the *duty* which we owe to Him in the employment of them. It is obvious, that as God has given us understanding, able to discriminate between the uses and abuses of our faculties; and moral sentiments, leading us to prefer their *use;* we owe it to Him as a duty, to fulfil his intentions, thus obviously expressed in our creation, by using our powers aright, and not abusing them.

The second branch of natural theology, like the first, rests upon the same foundation with all the other inductive sciences; the only difference being, that the one belongs chiefly to the inductive science of *physics*, and the other to the inductive science of *mind*.* This distinction, however, is not perfectly accurate; because the evidence of the existence and attributes of God, and also of man's duty toward Him, may be found in both branches of philosophy.

It has been objected, that revelation supersedes the necessity of studying natural theology. Dr. Thomas Brown, in his lectures on Moral Philosophy in the University of Edinburgh, has furnished a brief, but powerful, answer to this objection. "On this subject," says he,† "that comprehends the sublimest of all the truths which man is permitted to attain, the benefit of *revelation* may be considered

* See Lord Brougham's Discourse, 3d edit., p. 98. His argument is not clear.

† Vol. IV. p. 401.

to render every inquiry superfluous, that does not flow from it. But to those who are blessed with a clearer illumination, it cannot be uninteresting to trace the fainter lights, which, in the darkness of so many gloomy ages, amid the oppression of tyranny in various forms, and of superstition more afflicting than tyranny itself, could preserve, still dimly visible to man, that *virtue* which he was to love, and that *Creator* whom he was to adore. Nor can it be without profit, even to their better faith, to find all *nature* thus *concurring*, as to its most important truths, with revelation itself; and everything, living and inanimate, announcing that *high and holy One*, of whose *perfections* they have been privileged with a more splendid manifestation."

Dugald Stewart, in his Outlines of Moral Philosophy, also treats at considerable length of natural religion. "The study of philosophy," says he,* "in all its various branches, both natural and moral, affords at every step a new illustration that the design which we trace in creation indicates wisdom, and that it operates in conformity to one uniform plan, insomuch that the truths of natural religion gain an accession of evidence from every addition that is made to the stock of human knowledge."

Dr. Chalmers, in the fifth chapter of his Bridgewater Treatise, discusses "the special and subordinate adaptations of external nature to the moral constitution of man," and observes, "Notwithstanding the blight which has so obviously passed over the moral world, and defaced many of its original lineaments, while it has left the materialism of creation, the loveliness of its scenes and landscapes, in a great measure untouched—still we possess very much the same mtaerials for a Natural Theology, in reasoning on the element of virtue, as in reasoning on the element of beauty." (P. 191.)

Farther—I consider the study of natural theology as important in leading to a sound interpretation of scripture itself. Great differences exist in the interpretations of its declarations by different sects; and, as all truth must be harmonious, it appears to me that whenever the constitution of man and the attributes of the Deity shall be ascertained, so far as this is possible, by strictly logical induction from facts correctly observed in nature, all interpretations of scripture touching these points must be brought into harmony with nature.

* Page 271.

otherwise they will justly be regarded as erroneous. Every well established doctrine in moral philosophy and in natural theology, founded on the constitution of nature, will be a plumb-line by which to adjust interpretations of scripture. The scriptural doctrine of the corruption of human nature, for example, is one on which a vast variety of opinions is entertained by Christians. Phrenology shows that every faculty has received from the Creator an organ, and been furnished with legitimate objects, although each of them has also a wide sphere in which it may commit abuses. As the evidence of the organ is physical and indestructible, it must in time extinguish all interpretations of scripture that are at variance with it. When scripture is interpreted in such a manner as to contradict the sound conclusions of reason, on subjects which lie within the legitimate province of reason, all such interpretations must be powerless, or positively mischievous. The sound dictates of reason are the revelations of God's attributes and will to the human understanding, through the medium of our natural constitution and that of external nature, and they cannot be permanently and successfully resisted by any opinions of human origin. Again, no opinions of *divine* origin *can* be in opposition to the sound dictates of reason; for God cannot contradict himself. In no religious creed, therefore, should there be any article, in regard to matters cognizable by reason, that does not harmonize with natural theology and moral philosophy, soundly deduced from facts; in short, with the manifestations of the Creator's attributes and will, impressed by himself on creation.* The scripture may *go beyond*, but, when correctly interpreted, it never can *contradict*, the sound deductions of reason. In like manner, there should be no philosophy that is not religious; that is to say, which should not be viewed as a chapter of the Creator's great book of

* It is gratifying to trace the recognition of this principle in the works of divines. The Rev. Baden Powell, Savilian Professor of Geometry in the University of Oxford, in his work on "the Connexion of Natural and Divine Truth," says, "Physical science is the necessary foundation of natural theology: certain of the truths it discloses are warnings against mistaking the purport of scriptures; and the right use of the caution thus inculcated applies widely in the interpretation of revelation. Inductive philosophy is subservient both to natural and revealed religion. The investigation of God's works is an essential introduction to the right reception of his word"

revelation, addressed to the human understanding in the constitution of the universe.

I proceed, therefore, to consider the subject of natural theology, without fearing that, if properly conducted, it will endanger any other class or truths.

The first point which I propose to investigate relates to the foundation of natural religion. I beg of you to observe, that religion emanates from sentiment or emotion, and that it does not consist of a collection of mere intellectual conceptions or ideas. The foundations of it lie in the organs of Veneration, Wonder, and Hope. A brief explanation will enable you to understand this view. War springs originally, not from the human intellect, but from the propensities of Combativeness and Destructiveness, which give an instinctive tendency to oppose, to contend, and to destroy. There are legitimate spheres within which these propensities may act beneficially; but when they are too energetic, they carry captive the other powers, enlist them in their service, and then lead to the extensive destruction and horrors of war. Combativeness and Destructiveness, operating in savage man with very little intellect, produce war in which ambush and cunning are the arts, and clubs and bows and arrows the weapons, employed in destruction. The same propensities, acting in the enlightened nations of modern Europe, lead to the employment of scientific principles in the construction of works of attack and of defence, and to the use of cannon, and other ingenious and complicated instruments of destruction. Still, Combativeness and Destructiveness are the original sources in the human mind from which war itself, in all its forms and with all its weapons, flows. If these instincts were not possessed, men would feel no impulse to fight, any more than they feel an impulse to fly. In like manner, the whole art of music rests on the organs of Tune and Time as its foundation. In some individuals these organs are extremely defective; and they not only feel no internal impulse prompting them to produce melody, but are insensible to its charms when produced by others. In other persons, again, these organs act with such energy, that they impel them, as it were, to elicit music from every object. You may have seen individuals who, in want of a better instrument, have beat out passable tunes by a succession of blows on their own chins. When the musical organs engage the intellectual faculties to assist them, they obtain, by their

and, instruments for producing music, refined and perfect in proportion to the degree in which the intellect is instructed in the various arts and sciences capable of being applied to the production of melody and harmony. Still, you clearly perceive that the origin or foundation of the whole art and practice of music lies in the organs of Tune and Time.

Farther—You can readily infer that war will be practised by any nation very much in the proportion which Combativeness and Destructiveness bear in them to the other faculties. If these propensities preponderate over the moral sentiments, the people will be constantly craving for war and seeking occasions for quarrels. If they be very feeble, the people's attention will be directed to other and more peaceful pursuits, and they will naturally endeavour to avoid contentions. If we wish to tame a warlike people to the arts of peace, we should try to stimulate their higher faculties, and to remove all objects calculated to excite their pugnacious propensities. The same remarks apply to music. A native love of music will prevail in any people, in proportion to the natural endowment of the organs of Tune and Time in their brains. If we wish to cultivate music in a people, we should address the organs of Tune and Time by the sweetest and most touching melodies, and thereby call them gently and agreeably into action; knowing that by exercising them, and by no other means, we can increase their energy, and augment that people's love of music.

Similar observations may be applied to religion. The foundations of religion lie in the organ of Veneration, which instinctively feels emotions of respect and reverence, and gives the tendency to worship; in the organ of Wonder which longs after the new, the astonishing, and the supernatural, and which, combined with Veneration, leads us to adore an unseen power; and in the organ of Hope, which instinctively looks forward in expectation of future enjoyment. These inspire man with a ceaseless desire to offer homage to a superior Being, to adore him, and to seek his protection. The inherent activity of these organs has prompted men in all ages to employ their intellectual faculties to discover as many facts as possible concerning the existence and attributes of superior powers, or gods, and to institute ceremonies in honour of them. In some tribes of savages, we are informed that no traces of religion have been discovered; but you will find that in them the organs which

I have named are extremely small. They are in the same condition in regard to the religious feelings, that other tribes, in whom the organs of Tune and Time are deficient, stand in regard to melody; these have no music, in consequence of the extreme feebleness of the related organs in their brains. On the other hand, wherever the organs of the religious sentiments are large in a people, the nation or tribe will be found to be proportionally devoted to religion. If their intellectual faculties be feeble, if they have no science and no revelation to direct them, they may be ingulfed in superstition; but superstition is only the religious sentiments gone astray. They may be found worshipping stocks and stones, reptiles, and idols of the most revolting description; but still, this shows, not only that the tendency to worship exists in them, but that it may be manifested in great vigour when the intellect is feeble or very imperfectly informed. It proves also that these sentiments are in themselves blind, or mere general impulses, which will inevitably err, unless directed by an illumination superior to their own.

There is a distinction in nature between morals and religion. The organs of Conscientiousness and Benevolence are the foundations of morals. When they are predominantly large, they produce the tendency to do justly, and to act kindly, toward all men; but if the organs of the religious sentiments be deficient, there will not be an equal tendency to worship. Thus, we meet with many men who are moral, but not religious. In like manner, if the organs of the religious sentiments be large, and those of Conscientiousness and Benevolence be deficient, there may be a strong tendency to perform acts of religious devotion, with a great disregard of the duties of brotherly love and honesty. We meet with such characters in the world. The late Sir Henry Moncreiff, minister of St. Cuthbert's Parish, in Edinburgh, is said to have described a person, with whom he had had many transactions, in these forcible terms: "He is a clever man, a kind-hearted man, and he seems to be a religious man—in short, an excellent man; only, somehow or other, he is sadly deficient in common honesty." Phrenology enables us to comprehend the combination of qualities which gives rise to such characters. The description indicates large intellect, large organs of the religious sentiments, and large Benevolence, but great deficiency in the organs of Conscientiousness.

According to these views, religion rests on the sentiments of Veneration, Wonder, and Hope, as its foundations. The enlightenment of the intellect serves to direct these sentiments to their proper objects, but does not produce them, and therefore does not produce religion. Revelation is generally viewed as a communication from heaven to the intellectual faculties, informing them of truths which they could not discover by their unaided exertions, and enabling them thereby to direct and guide the religious sentiments to objects which they could not reach, unless thus enlightened and directed. Assuming this view to be correct, revelation does not *create* religious feelings in man: it can only enlighten, enliven, and direct the religious sentiments previously inherent in his nature. This idea may be illustrated thus: Let us imagine that in the songs of heaven there is a particular choral symphony, which the human faculties, unaided, could never invent. If an angel were sent to teach it, it is quite conceivable that the organs of Tune and Time, guided by such a teacher, might learn to execute it; and that men thus taught might be better prepared for joining the choral band of heaven, when they entered the realms of bliss, than if they had not been favoured with this celestial instruction. This is conceivable, without supposing the angel to create the organs of Tune and Time in man, and without supposing those organs to deviate from the laws of their natural constitution in acquiring the celestial music. We can conceive also, that as *this* music would be purer, more exalted, more exquisite, and more perfect, than any melody of merely human growth, the practice of it might enliven the faculties of Tune and Time, render them more exquisite in their perceptions, and lead them to prefer higher standards of music; and that, as a natural consequence of this enlivenment, the organs might increase in size and activity, and the capacity for music be greatly enlarged.

In like manner, scripture may be conceived to communicate truths which the unaided faculties of man could not reach, but still designedly adapted to his previously existing faculties, and operating by exalting, purifying, invigorating, and directing them in the exercise of their natural functions. It is conceivable that individuals may, by such a cultivation and direction of their moral and religious sentiments, be prepared, in a manner and to a degree which they could not

reach but for this scriptural instruction and guidance, to join the society of angels and just men made perfect in heaven. Natural theology, for example, is not calculated to present us with clear and practical information concerning a future state of existence. It affords grounds of expectation of a life to come, but no demonstrative evidence of it. To make known a condition of being beyond the grave, and to prepare us for it, have ever baffled the power of natural theology; and in regard to this particular object, its deficiency must be universally confessed. As those individuals, in whom the organs of Tune and Time are most fully developed and best cultivated, would be best prepared to profit by the angel-teacher's visits; in like manner, those men in whom the organs of the religious, moral, and intellectual faculties are largest and most fully exercised, would be best prepared to imbibe, assimilate, and practise the communications of the Bible on this and other topics that lie beyond the sphere of reason.

It is thus impossible that religion itself can be overset, or eradicated from the human mind. The forms and ceremonies by which the religious sentiments manifest themselves may be expected to vary in different ages, and in different countries, according to the state of the intellectual cultivation of the people; but these emotions themselves evidently glow with a never-dying flame, and man will cease to worship only when he ceases to exist.

After the exposition which I have given of the origin of music, you would smile if I were to assure you that music would perish, if the Society of Professional Musicians was dissolved. You would at once discover that this society itself, as well as all the pieces which they perform, and the instruments which they use, have sprung from the innate love of music in the mind, and that it is mistaking the effect for the cause, to imagine that, when they cease to exist as a society, music will become extinct. The result of their dissolution would be, that the inherent activity of the musical faculties would prompt other individuals to establish other societies, probably on more improved principles; and music would flourish still.

It is equally absurd to mistake churches, articles of faith, and acts of parliament, for the foundations of religion, and to imagine that, when these are changed, *religion* will perish. The day was, when religion was universally believed to rest,

for its existence, solely on the decrees of Roman Catholic councils and popish bulls, and when the priests assured the world that the moment their church and authority were subverted, religion would be for ever destroyed. But we have lived to see religion flourishing vigorously in nations which disown that authority and church. If the churches and articles of faith now prevalent shall be changed, of which there is much probability, the adherents of them will, after the fashion of the priests of Rome, proclaim that the doom of religion has been sealed; but all men who are capable of looking at the true foundation of religious worship, firmly and deeply laid in the human faculties, will be unmoved by such alarms. They will expect religion to shine forth in ever-brightening loveliness and splendour, in proportion to the enlightenment of the public mind; and they will fear neither infernal nor terrestrial foes.

It would greatly assist the progress of improvement, if a firm conviction of the stability of religion could be carried home to the public mind; because many excellent persons might thereby be delivered from the blind terrors in which they constantly live, lest it should be destroyed; and the acrimony of contending sects would also be lessened, every one of which identifies its own triumph with that of religion itself.

The next question that presents itself is, Whether there be any moral or religious duties prescribed to man by natural theology? In answering this question, moralists in general proceed to prove the existence and attributes of God, and to infer from them the duties which we owe to him as our creator, preserver, and governor. They regard him as the mighty God, and us as his lowly subjects, bound to fear, tremble, love, and obey him: I entirely concur in this view when applied *to doing the will of God;* but it appears to me that it has often led to misconceptions and abuse. Religious duty has, somehow or other, come to be too generally regarded (in the spirit at least in which it is practised, if not in words) as a homage rendered to the Divine Being for his own gratification, which he will be displeased if we withhold, and which, on the other hand, if it be cordially and devoutly tendered to him, he will reward with benefits conferred on the devotee. In short it partakes too much of the character of selfishness. Many persons have a notion of the Divine Being somewhat resembling that of an earthly sovereign, whom they may win and

gratify by praises and flattery, and from whose favour they may expect to receive something agreeable and advantageous in return. All this is superstition and error. I am aware that no rational Christian puts his religious worship into the form of such propositions; but I fear that the spirit of them can be too often detected in much of the religion of the world.

It appears to me that the religious service of the Deity posesses, under the lights of nature, a totally different character.

The *existence* of a supreme Creator and governor of the world, is no doubt the first position to be established in natural religion: but the proofs of it are so abundant, so overpowering to the understanding, and so captivating to the sentiments, that I regard this as the simplest, the easiest, and the least likely to be disputed, of all the branches of the subject. If reflecting intellect be possessed, we can scarcely move a step in the investigation of nature without receiving irresistible proofs of divine agency and wisdom. I opened the first book embracing natural science that came to my hand, when composing this lecture. It happened to be a Number of the Penny Cyclopædia, which had just been sent in by the bookseller; and I turned up the first page that presented itself. (p. 151.) It chanced to be one on bees, and I read as follows: "In many instances, it is only by the bees travelling from flower to flower, that the pollen or farina is carried from the male to the female flowers, without which they would not fructify. One species of bee would not be sufficient to fructify all the various sorts of flowers, were the bees of that species ever so numerous, for it requires species of different sizes and different constructions." M. Sprengel found that "not only are insects indispensable in fructifying different species of Iris, but that some of them, as I. Xiphium, require the agency of the larger humblebees, which alone are strong enough to force their way between the stile-flags; and hence, as these insects are not so common as many others, this Iris is often barren, or bears imperfect seeds."

This simple announcement proves to my understanding, incontestibly, the existence and presence of a Deity in creation; because we see here an important end, clearly involving design, accomplished by agents altogether unconscious of the service in which they are engaged. The bee, performing, all unconsciously to itself, the work of fructification of the flowers—and the provision of bees of different weights

for stile-flags of different strengths—bespeak, in language irresistible, the hand and mind of an intelligent contriver. And who is this contriver? It is not man. There is only one answer possible—it is the Deity; and one object of his selecting such a method for operating, appears to have been, to speak home to the understandings of men, concerning his own presence, power, and wisdom. Nature is absolutely overflowing with similar examples.

But there is another species of proof of the existence of a God—that which is addressed to the poetic sentiments of man. "The external world," says Mr. Sedgwick, "proves to us the being of a God in two ways: by addressing the imagination, as well as by informing the reason. It speaks to our imaginative and poetic feelings, and they are as much a part of ourselves as our limbs and our organs of sense. Music has no charms for the deaf, nor has painting for the blind; and all the touching sentiments and splendid imagery borrowed by the poet from the world without, would lose their magic power, and might as well be presented to a cold statue as to a man, were there no preordained harmony between his mind and the material beings around him. It is certain that the glories of the external world are so fitted to our imaginative powers as to give them a perception of the Godhead and a glimpse of his attributes; and this adaptation is a proof of the existence of God, of the same kind (but of greater or less power, according to the constitution of our individual minds) with that which we derive from the adaptation of our senses to the constitution of the material world." Discourse on the studies of the University of Cambridge, pp. 20, 21.

Assuming, then, the existence of a Deity as demonstrable by means of the work of creation, the next question is, What can we discover of his character by the exercise of our natural faculties?

In answering this question, I observe, in the first place, that we cannot possibly discover anything from creation concerning his person or personal history, if I may use such expressions, because there is no manifestation of these in the external world. If, for example, we were to present a thread of raw silk to an intelligent man, and ask him to discover, from its physical appearances alone, the individual characteristics of the maker of the thread, he would tell us that it is impossible to do so · because the object presented

to him does not contain one element from which his understanding can legitimately infer a single fact in answer to such a question. In like manner, when we survey earth, air, and ocean, our own minds and bodies, and every page of creation that is open to us; although we perceive thousands of indications of the mental qualities of the Creator, we receive not one ray of light concerning his form of being, his personal history, residence, or individual nature. All conjectures on this subject, therefore, founded on reason apart from scripture, are the offspring of fancy or of superstition.

But we receive from creation overwhelming proofs of his mental attributes. In the stupendous mechanism of the heavens, in which our sun and whole planetary system are but as one wheel, and that so small that, although annihilated, its absence would scarcely be perceptible to an eye embracing the universe—we perceive indications of power which absolutely overwhelm our imaginations. In the arrangements of physical and animal creation we discover proofs of wisdom without limits; and in the endowment of our own minds, and the adaptation of the extenal world to them, we discover evidence of unbounded goodness, intelligence, and justice.

The inference which I draw from these manifestations of the divine character is this: that God veils from us his individual or personal nature, to avert from our minds every conception that he stands in need of us, or of our homage or services, *for his own sake;* so that we may have neither temptation nor apology for adopting a system of worship, such as we should address to a being whom we desired to flatter or please by our attentions;—and that he reveals to us his moral and intellectual attributes, to intimate to us that the worship which will meet with his approbation, is that which will best cultivate our own moral and intellectual powers Now, what *is* this form of service? All creation proclaims an answer! It is acting in the spirit of the Creator as manifested in his works. If so, natural religion must be progressive in its principles and duties, in exact correspondence with an increasing knowledge of the mental character and will of the Deity, expressed in his works; and it really is so.

Theologians often reproach the religion of nature with barrenness, darkness, and uncertainty. They might as legitimately make the same charge against the *philosophy*

of nature. Up to a very recent period indeed, the philosophy of nature was barren; but the reason was, not that in itself it contained no wisdom, nor any elements adapted to the profitable use of man, but that man's ignorance was so great, that he had not discovered how to study that philosophy in its right spirit. As soon as Lord Bacon put him into the road to study wisely, natural philosophy became munificently productive; and at this hour, her stores continue to open more and more widely before the human intellect and imagination.

The same history will hereafter be given of natural religion. While men were ignorant of every principle of philosophy, it was most natural to ascribe every isolated effect to an isolated power, and to imagine as many deities as there were agencies in the world which they could not reconcile. They saw the rivers rushing to the ocean in mighty torrents; their Veneration and Wonder were moved by the power displayed in the descent of the waters, and they imagine a river god as the cause. They perceived the earth yielding spontaneously fruits, and flowers, and herbage, of the richest kinds; they felt the bounty of the gifts, and, ignorant of their cause, ascribed them to the goddess Ceres. They saw the seasons change, and the sun, moon, and planets presenting different appearances; and, ignorant of the cause, but deeply impressed with the manifestations of power which these orbs displayed, they imagined them to be deities themselves. All this was the natural effect of the human faculties operating in profound ignorance of physical causation

But since philosophy demonstrated that the planets revolve, and rivers roll, in virtue of one law of gravitation, we no longer ascribe each action to a separate deity, but attribute both to one; and our notions of that one are prodigiously enhanced by the perception of a single power extending over such mighty intervals of space, and operating in all according to one uniform law. In proportion, therefore, as we advance in knowledge of creation, we discover proofs of uniformity, combination, mutual relationship, and adaptation, that compel the understanding to ascend to one cause, and to concentrate in that cause the most transcendent qualities. It is thus that our conceptions of the attributes of the divine Being drawn from nature, go on increasing in truth, in magnificence, and in beauty, in proportion as we proceed in the acquisition of knowledge; and

as our rapid progress in it is of recent origin, we may well believe that natural religion could not earlier have presented many attractions to the understanding or the moral sentiments of man.

But the reproach is made against natural theology, that it is barren also in regard to man's duties. Here the same answer occurs. Natural theology teaches that it is man's duty to perform aright the part which God has allotted to him in creation; but how could he discover what that part was, until he became acquainted with himself and with creation? Natural theology was barren in regard to duties only because the knowledge of nature, which alone gives it form and substance, had itself scarcely an existence in the human mind. Man had not learned to read the record, and was therefore ignorant of the precepts which it taught. He was exactly in the same condition, in regard to natural religion, in which most of us would be, if we had never received any but a Gaelic Bible. The whole doctrines and precepts of Christianity may be faithfully recorded, and most explicitly set down in it; but if we cannot interpret the characters, of what service is the book to us? It would be absurd, however, to object against the Bible itself, on this account, that it is barren of instruction.

In like manner, whenever we shall have interpreted aright the constitution of the human mind and body, the nature of the physical world, and our relations to it and to God, which constitute the record of our duties, as prescribed by the Creator in the book of nature, we shall find natural theology most copious in its precepts, most express in its injunctions, and most peremptory in its demands of obedience. In short, it commands us, from God, to act according to his will, as revealed to our moral and intellectual faculties in creation. For example: The moment that we discover that he has bestowed on man an organ of Philoprogenitiveness, and the moment that we comprehend its uses and objects, every well constituted mind feels that this is a direct precept from God, that parents should love their children. But when we discover that this is a mere blind impulse, which may egregiously err, and that God has given us intellect and moral sentiments to direct its manifestations, the obligation is instantly recognised to lie on all parents, to use these faculties, in order to attain the knowledge necessary for loving their children according to true wisdom. And what

is this knowledge! It is acquaintance with the bodily constitution and mental faculties of children, and with the influence of air, diet, exercise, seasons, clothing, mental instruction, and society, upon them; so that the parents may be enabled to train them in health, prepare them for becoming virtuous members of society, and secure their present and future happiness. If any mother, through ignorance of the physical constitution of her child, shall so mismanage its treatment that it shall become miserable or die, she has neglected a great duty prescribed by natural theology; because the moment she perceives that God has rendered that knowledge necessary to the welfare of the child, and has given her understanding to acquire it, she is guilty of disobedience to his will in omitting to seek it. The unhappiness and death of the child are punishments which clearly indicate his displeasure.

I appeal to you who have followed a course of lectures on phrenology and read the "Constitution of Man," and been satisfied with the general truth of the principles unfolded in them, whether you do not feel these to be duties prescribed in the constitution of nature, by the Creator, to parents, with a command as clear and explicit, and with a sanction as certain, as if he had opened the heavens, and, amid thunders and the shaking of the universe, delivered to them the same precepts written on monumental brass! In truth, they are more so; because the authenticity of the tablets of brass, like those of stone, might be disputed and denied by sceptics, who did not themselves see them delivered; while the precepts written in our nature, adapted to the constitution of our faculties, and enforced by the whole order of creation, stand revealed in a record which never decays nor becomes obsolete, and the authenticity of which no sceptic can successfully deny. If the precepts therein contained be neglected by ignorance, or set at defiance by obstinacy, they never are so with impunity; because God in his providence sweeps resistlessly along in the course which he has revealed, laying in the grave the children in whose persons his organic laws have been deeply infringed, rendering unhappy those in whom they have been materially neglected, and rewarding with enjoyment only those in whose minds and bodies they have been obeyed.

The same principle applies to every action which our constitution and its relations point out to us as proper to be

done or to be sustained from; natural theology at once impresses on it the sanction of the Divinity, and enforces it by all the dictates of Conscientiousness, Veneration, and Hope. If I am sound in the view which I have laboured to establish, that the world is really constituted on the principle of the supremacy of the moral sentiments and intellect; that is, that human nature and the external world are so arranged as to admit of man becoming prosperous and happy in proportion as he becomes thoroughly moral and intelligent, as he seeks his chief enjoyments from his superior faculties, and arranges his time and occupations with a view to that result—and by no other means;—what a fertile field of precept for the practice of virtue is thus opened up to us! How eloquent, how forcible, how varied, and how instructive, may not the teachers of God's law and God's will then become, when they shall have the whole book of creation opened to them for texts; when every line shall be clear, interesting, and instructive; and when they shall be able to demonstrate, in the consequences which attend the fulfilment or neglect of their precepts, that they are teaching no vain nor fanciful theories, but the true wisdom of God! Conceive for one moment how much of useful, interesting, nay, captivating instruction, might be delivered to a general audience, by merely expounding the functions, uses, and abuses of the various organs of the body necessary to health, and of the organs and faculties of the mind, holding up the constitution of each as a Divine intimation to man, and the consequences of using or abusing each as solemn precepts from the Divinity, addressed to his understanding and his moral and religious feelings!

In presenting these views for your acceptance, I assume that it is *possible* to discover important duties by studying the institutions of the Creator; and in a preceding lecture I have said, that "every act is morally *right* which is approved of by an enlightened intellect, operating along with the moral sentiments of Benevolence, Conscientiousness, and Veneration; while all actions disapproved of by these faculties are wrong." An objection to this doctrine, however, has been stated in the following words: "Here we would ask, *whose* 'enlightened intellect' is referred to in the above passage, or how we can know when our own becomes sufficiently enlightened to be taken as a guide? Is this giving us one moral standard, or many?" I would

answer this question by propounding to the objector another. What moral standard does he himself possess? He will probably answer, "the scripture;" but I reply that the scripture is differently interpreted by different minds; and I again inquire, Whose mind constitutes the standard of infallible interpretation? The pope answers, that the mind of himself and of his cardinals, acting in council, do so. The general assembly of the church of Scotland, however, deny the pretensions of the pope and cardinals, and virtually claim it as belonging to themselves. The Episcopalians, Unitarians, and Universalists, on the other hand, affirm that the church of Scotland has no more legitimate claim to infallibility in interpreting scripture, than the pope. Where, then, is the standard to be found? In my opinion, the decisions of those individuals who possess the largest developement of the moral and intellectual organs, and the most favourable combination of them in relation to each other, and to the organs of the animal propensities; who also possess the most active temperaments, and who have cultivated all these gifts to the highest advantage, will be entitled to the greatest respect as authorities on morals and religion, whether these be founded on interpretation of God's works, or on interpretations of scripture. If this standard be imperfect, I know of no other.

Again—If these views be well founded, how unproductive of real advantage must the preaching and teaching of Christianity necessarily be, while the duties prescribed by Nature are ignorantly neglected! Nothing appears to me to be more preposterous, than for human beings to pray, evening and morning, to their Maker—"Thy kingdom come, thy will be done on *earth* as it is in heaven;" and all the while to close their eyes against the perception of the means appointed by God for realizing his kingdom and doing his will on earth! So far from the duties prescribed by natural theology being either barren or adverse to Christianity, it appears to me that practical Christianity has remained, to a great extent, unproductive, misunderstood, and comparatively feeble, in consequence of the dictates of natural theology having been unknown and neglected. If I am correct in the single position, that men in whom the coronal region and the anterior lobe of the brain are large, are naturally alive to the truth and excellence of practical Christianity, while those in whom these regions, particularly the coronal

are deficient, are naturally opposed to, or indifferent about, t—how important does it become to obey all the dictates of natural theology for improving the developement of the brain, as a preliminary condition, indispensable to the general introduction of the morality of Jesus Christ!

LECTURE XIX.

RELIGIOUS DUTIES OF MAN.

Natural theology prolific in moral precepts—Its dictates compared with those of the Ten Commandments—Answer to the objection that natural theology excludes prayer—Dr. Barrow, Dr. Heylin, and Lord Kames quoted—Worship of the Deity rational.

In my last lecture I mentioned that natural religion is based on the sentiments of Veneration, Wonder, and Hope, which are innate in man, and which give him the desire to discover, and the disposition to worship and obey, a supernatural Power; that it is the duty of the intellect to direct these sentiments to their proper objects; and that the intellect obtains much needful illumination from the study of Nature. I regarded the province of reason to be to unfold the character and will of God, in so far as these are discoverable in the works of creation. I observed that, on this account, natural theology must always keep pace with natural science; science being merely a methodical unfolding of what God has done and instituted in creation. Hence I inferred that our notions of the character of God will be more correct and sublime, in proportion as we become better acquainted with his works; and that our perception of our duties will be clearer and more forcible, in proportion as we compare correctly our own constitution with his other natural institutions. I concluded the last lecture by observing that natural theology is in reality extremely prolific in precepts, and imperative in enforcing obedience, whenever we know how to read the record. In elucidation of this remark, I shall now compare the ten commandments with the dictates of natural theology, and you shall judge for yourselves whether the same law is not promulgated in both. In order to see the precept, however, in natural theology, be it remembered that you must be able to read the record in which it is written; that is to say, you must understand

the constitution of the external world, and that of your own nature, to such an extent as to be capable of perceiving what God intended that a rational being, capable of comprehending both, should do, and abstain from doing, in consequence of that constitution. If you are ignorant of this natural record, then the duties which it contains will appear to you to be mere fancies, or gratuitous assumptions; and the observations which I am about to make will probably seem irreverent, if not unfounded. But with every indulgence for the ignorance of God's natural institutions, in which the imperfections of our education have left most of our minds, I beg to be forgiven for not bowing before the decisions of that ignorance, but to be permitted to appeal to the judgment of men possessing the most extended knowledge. If there be individuals here who have seriously studied natural science, and also the structure and functions of the human body, and the nature and functions of the mind, as revealed by phrenology, I submit myself to their judgment. They have learned to read the record of natural theology, and have prepared their minds by knowledge to interpret it aright, and their opinions are deserving of more consideration than those of other individuals, who have never turned their attention to the subject.

The Ten Commandments are given forth in the book of Exodus, which narrates that they were delivered by God himself to Moses, written on tables of stone. If we find that every one of them is written also by the finger of God in the human constitution, and is enjoined by natural religion, this cannot diminish the authority of the scripture, but must add to its sanction, by showing nature to harmonize with its dictates.

The first commandment is, "Thou shalt have no other Gods before me."

This forbids an abuse of Veneration; and all nature, when rightly understood, proclaims one God, and enforces the same commandment. The nations who are lost in superstition and given up to idolatry, are profoundly ignorant of natural science. In proportion as we become acquainted with nature, the authority of this commandment in natural religion becomes stronger and stronger.

The second, "Thou shalt not bow down thyself to them nor serve them," &c.

This is a repetition or amplification of the same precept

Third—"Thou shalt not take the name of the Lord thy God in vain."

This is still directed against an abuse of Veneration. As soon as the intellect is enlightened by natural religion, in regard to the real attributes of the Deity, the reverence and obedience to him, and the avoidance of idolatry, profanity, and swearing, prescribed by these commandments, are irresistibly felt to be right, and conformable to the dictates of the natural law.

Fourth—"Remember the Sabbath day, to keep it holy," &c.—"In it thou shalt not do any work," &c.

This enjoins giving rest to the muscular frame on the seventh day, that the brain may be able to manifest the moral and intellectual faculties with more complete effect. It ordains, also, that on that day the moral and intellectual faculties shall be exclusively devoted to the study and contemplation of God and his works, and to the doing of his will.

Every line of our bodily and mental constitution coincides with this precept. Phrenology, which is a branch of natural philosophy, shows that the mind depends for its powers of acting on the state of the brain, and that, if constant muscular labour be endured, the brain will be inert, and all our moral, religious, and intellectual faculties will become obtuse and dull: and, on the other hand, that if we indulge in ceaseless mental exertion, we shall exhaust and weary out our brains by over-activity, and become at length incapable of beneficial application to moral and religious duties. Thus the obligation to rest in due season is written as clearly in our constitution as in the fourth commandment.

Indeed, our natural constitution commands not only an extent of repose from labour equal to that prescribed by the commandment, but greatly more. It imposes on us the duty of resting from labour several hours every day in our lives, and dedicating them to the study and practice of the will of God. The observance, however, which it prescribes of the seventh day, is somewhat different from that taught by human interpreters of the fourth commandment. On this subject the New Testament is silent, so that the *mode* of observing Sunday is left to the discretion of men. Our Scottish divines, in general, forbid walking or riding, or any other form of exercise and recreation on Sundays, as a contravention of the fourth commandment. In our constitution, on the other hand, God proclaims that while incessant labour

through its influence on the mental organs, blunts our moral, intellectual, and religious faculties, abstinence from all bodily exertion, and the practice of incessant mental application for one entire day, even on religion, are also injurious to the welfare of both body and mind; and that on the seventh day there is no exception to the laws which regulate our functions on other days. These require that air, exercise, and mental relaxation should alternate with moral, religious, and intellectual studies. Accordingly, natural theology teaches us to transfer a portion of the Sunday's rest and holiness to every one of the other days of the week, and to permit on the Sundays as much of air, exercise, and recreation as will preserve the mental organs in the best condition for performing their moral, religious, and intellectual duties.*

* In the New Testament no express injunction is laid on Christians to observe the first day of the week in the same manner that the Jews were commanded, in the Old Testament, to observe the last day of the week, or Sabbath. In point of fact, there is no explicit prescription, in the New Testament, of any particular mode of observing the first day of the week. While, therefore, all Christian nations have agreed in considering themselves not bound by the fourth commandment to observe the seventh day, or Jewish Sabbath, they have differed in regard to the mode of observing the first day of the week; and as the scripture prescribes no definite rule, each nation has adopted such forms of observance as appeared to itself to be most accordant with the general spirit of Christianity. Thus, in Catholic countries amusements are permitted on Sundays, after Divine service; in Scotland amusements and labour, except works of necessity and mercy, are prohibited. In Scotland, also, Sunday commences at twelve o'clock on Saturday night, and ends at twelve o'clock on Sunday night. In Massachusetts, on the other hand, different views are entertained. While Chap. 50, Sects. 1st, 2d, and 3d, of the Revised Statutes, prohibits all persons from doing any work, and from travelling on "the Lord's day," Sect. 4th declares that day, for the purposes of these sections, "to include the time between the midnight preceding and *the sunsetting of the said day*." According to the Scottish law, therefore, Sunday consists of twenty-four hours at all seasons of the year; while, according to the "Revised Statutes of Massachusetts," it consists only of sixteen and a half hours on the 22d of December, and stretches out as the days lengthen, but never exceeds nineteen and a half hours at any period. Hence, in Scotland, a person would be fined or imprisoned for doing acts after sunset, on the Sunday evening, which in Massachu-

You are aware, that, on the continent of Europe, Sunday is devoted, to some extent, to recreation. This may be carried too far there; but unless the scripture abrogate the law written by God in our constitution, we, in Scotland, have erred a little in the opposite extreme. The force of this observation can be appreciated only by those who are acquainted with the physiology of the brain. The difference between the expounder of the Bible, and him who unfolds the natural laws, is this: The former, when he departs from the natural laws, can enforce his interpretations of scripture only by an arm of flesh. If men refuse to forego air, exercise, and recreation on the seventh day, the divine may refuse them church privileges, or call in the police to fine and imprison them; but he can do no more. He cannot change the nature of the mind and body; nor will the Creator punish the people for not acting as their teacher desires them, in opposition to the natural laws. The interpreter of the Book of Nature, on the other hand, may wield no arm of flesh; but he is enabled to point to the power of God, enforcing the divine laws, and to demonstrate that punishment is inseparably connected with infringement, and reward with obedience. The expounder of scripture, who, without inquiring what God has commanded in his natural laws, goes to parliament, and prays for authority to enforce his own interpretation of the fourth commandment on his country, is met by opposition, ridicule, and aversion;* he is astonished at what he regards as the perverse and irreligious character of legislators, and ascribes their conduct to the corruption of human nature. It is the arm of the Deity that opposes him. His scheme, in so far as it prohibits

setts are entirely lawful. Again, in the Revised Statutes of this Commonwealth, it is declared, by Sect. 5, that "no person shall be present at any game, sport, play, or public diversion, except concerts of sacred music, upon the evening next preceding or following the Lord's day," under the penalty of paying a fine of five dollars. In Edinburgh the best plays and public entertainments are brought forth on the evening next preceding the Lord's day," or Saturday evening, and are then most numerously attended; so that in Boston a Christian is fined in five dollars for doing, on that evening, what a Christian in Edinburgh is permitted to do, without any penalty whatever.

* At the time the text was written, Sir Andrew Agnew was beseeching parliament to pass a bill for the better observance of the Sabbath.

wholesome recreation, is in opposition to the divine laws written in the nature of man: nature speaks with a thousand tongues; and his object is baffled by a might which he neither sees nor comprehends.

This appears to me to be the real cause of the bad success in parliament of the Sabbath-observance bills. They clearly conform to nature in so far as they prohibit compulsory labour on that day; but they certainly depart from the laws written by God in our constitution, when they tend to discourage and prohibit that extent of recreation on Sundays which a corporeal frame like ours demands, and without which, the mind, while dependent on the brain for its energy cannot put forth its full vigour either in morals, religion, or science. I fear that these ideas may appear startling to some of my present audience, who have not studied the connexion of the brain with the mind; but believing them to be correct interpretations of the divine will, I should feel myself guilty of moral cowardice, if I forebore to bring them under your notice.

When, on the other hand, the expounder of scripture interprets according to God's law as revealed in nature, he is backed and supported by the whole weight of the divine power and authority in creation, and his precepts become irresistible. He needs no act of parliament, and no police to enforce his edicts. The Lord of heaven and earth, who proclaimed the laws, carries them into execution.

The fifth commandment is, "Honour thy father and thy mother."

This enjoins an exercise of Veneration toward parents. Natural theology enforces this precept in the most direct and efficacious manner. There is an organ of Veneration prompting us to respect virtue, wisdom, and experience, and our parents are among its natural objects. There is, however, one modification of it, which natural theology points out, not expressed, although implied, in the fifth commandment:—Parents must render themselves legitimate objects of veneration, by manifesting superior moral, intellectual, and religious qualities and attainments, before they are authorized to expect the sentiment to be directed toward them by their offspring. Both scripture and reason require them to do so, and they have no warrant from either to exact reverence while they neglect their own duties.

The sixth commandment is, "Thou shalt not kill."

This forbids an abuse of Destructiveness. In natural theology we find that the dictates of Benevolence, Veneration, and Conscientiousness, all conspire with the commandment in forbidding violence; and, moreover, Combativeness and Destructiveness lend their aid in enforcing the precept, because they prompt society to retaliate and slay the killer.

The seventh commandment is, "Thou shalt not commit adultery."

This forbids an abuse of Amativeness. In natural theology the whole moral sentiments conjoin in the same prohibition; and they and the intellect carry the restrictions and directions greatly farther. They prohibit marriages at ages too early and too late; marriages of persons related in blood; of persons who possess imperfect or immoral developements of brain; of individuals while labouring under any great constitutional malady. In short, natural theology interdicts many abuses of Amativeness not mentioned either in the Old or New Testament, and it shows its authority in the natural laws for its requirements. The disregard with which the dictates of natural theology in this department are treated, is to be traced to profound ignorance that God has issued the prohibitions. We are not yet accustomed to regard nature as a revelation of God's will, or to direct our conduct by it; but this is either our fault or our misfortune, and it is wrong.

The eighth commandment is, "Thou shalt not steal."

This forbids an abuse of Acquisitiveness. In natural theology, Conscientiousness and the other moral sentiments concur in the denunciation of theft, and the intellect points out to the culprit that the individuals who are the subjects of his depredations, will visit him with punishment which must necessarily prove painful to himself.

The ninth commandment is, "Thou shalt not bear false witness."

This forbids the action of the other faculties without the control of Conscientiousness; all the moral sentiments proclaim the same prohibition.

The tenth commandment is, "Thou shalt not covet thy neighbour's house," &c.

This forbids an abuse of Acquisitiveness, and of the faculty of Self-Esteem in its form of self-love, seeking gratification at the expense of others.

These precepts are enforced in natural theology by the

dictates of the whole moral sentiments, and also by the arrangements of the social world, which bring evil on those who contravene them.

Trying the ten commandments, then, by the standards of natural theology, we see no reason to question their inherently divine character; we find them all written in the other record of the divine will, that of creation. I may observe, however, that they are not complete: first, as rules of duty; for they do not forbid, in express terms, abuses of Philoprogenitiveness, Adhesiveness, Self-Esteem, Love of Approbation, Benevolence, and many other faculties: and, secondly, they do not expressly enjoin the *direct exercise* of any faculty except that of Veneration. There is no commandment directly enjoining the exercise of Benevolence, Conscientiousness, and Intellect, or commanding legitimate uses of Philoprogenitiveness, Adhesiveness, Cautiousness, &c. The New Testament far excels the Mosaic law in supplying these deficiencies. First, Christ forbids the abuses of *all* our faculties; secondly, he enjoins the active and legitimate *exercise* of them all; and, thirdly, he clearly proclaims the supremacy of the moral sentiments, or teaches the duty of loving our neighbours as ourselves. In one and all of these precepts, natural theology coincides with, and enforces his commands. Want of time prevents me from showing this in detail, but you can have no difficulty in following out the subject yourselves with the lights which you now possess.

It has been stated as an insuperable objection to these views, that they entirely exclude the practice of prayer, praise, and devotion. If God governs by general and immutable laws, what, it is asked, is the object or advantage of offering him any homage or service whatever? I answer this question in the words of Dr. Isaac Barrow. "We do not pray to instruct or advise God; not to tell him news or inform him of our wants: (he knows them, as our Saviour telleth us, before we ask:) nor do we pray by dint of argument to persuade God, and bring him to our bent; nor that by fair speech we may cajole him or move his affections toward us by pathetical oration: not for any such purpose are we obliged to pray. But for that it becometh and behooveth us so to do, because it is a proper instrument of bettering, ennobling, and perfecting our souls; because it breedeth most holy affections, and pure satisfactions, and

worthy resolutions; because it fitteth us for the enjoyment of happiness, and leadeth us thither: for such ends devotion is prescribed."* The doctrine that God is immutable, that he governs by general laws, and that our prayers have no effect on him, has been maintained also by two eminent Scottish divines, Drs. Leechman and Blair, quotations from whom you will find in the ninth chapter of the "Constitution of Man." I here add the following sentiments expressed in "Theological Lectures at Westminster Abbey," by John Heylin, D.D., Prebendary of Westminster, and Rector of St. Mary-le-Strand:†

Discoursing "concerning prayer," Vol. I. p. 94, he says: "*Your Father knoweth what things ye have need of, before ye ask him.* These words are highly instructive, and may serve to give us a solid and practical knowledge of the true nature of prayer. The proper end of prayer is not to inform God of our wants, nor to persuade him to relieve them. Omniscient as he is, he cannot be informed. Merciful as he is, he need not be persuaded. The only thing wanting is a fit disposition on our part to receive his graces. And the proper use of prayer is to produce such a disposition in us as to render us proper subjects for sanctifying grace to work in, or, in other words, to remove the obstacles which we ourselves put to his goodness."

The same views were taught by the philosophers of the last century. "The Being that made the world," says Lord Kames, "governs it by laws that are inflexible, because they are the best; and to imagine that he can be moved by prayers, oblations, or sacrifices, to vary his plan of government, is an impious thought, degrading the Deity to a level with ourselves." His lordship's opinion as to the advantage of public worship, shows that he did not conceive the foregoing views of prayer to be in the least inconsistent with its reasonableness and utility. "The principle of devotion," he says, "like most of our other principles, partakes of the imperfection of our nature; yet, however faint originally, it is capable of being greatly invigorated by cultivation and exercise. Private exercise is not sufficient; nature, and consequently the God of nature, require public exercise or public worship: for devotion is communicative, like joy or

* First Sermon on the Duty of Prayer.

† 1749—Tonson and Draper in the Strand, 46.

grief; and, by mutual communication in a numerous assembly, is greatly invigorated. A regular habit of expressing publicly our gratitude and resignation never fails to purify the mind, tending to wean it from every unlawful pursuit. This is the true motive of public worship; not what is commonly inculcated—that it is required from us as a testimony to our Maker of our obedience to his laws. God, who knows the heart, needs no such testimony."*

The objection that natural theology excludes devotion and praise, is equally unfounded. It no doubt excludes both, with the object of gratifying the Creator by expressing to him our approbation of his works and government, as we would seek to please an earthly sovereign by addresses conveying to him our favourable opinion of his measures. But if our moral and religious sentiments be deeply penetrated with a sense of our own absolute dependence on his power, and with admiration of his greatness and goodness; if our intellects be imbued with clear perceptions of his wisdom; if our whole faculties flow toward his laws and institutions, with the most earnest desire to know and to obey them; and if we have been created social beings, so that our souls expand in vigour, augment in vivacity, and rise into higher sublimity, by acting in the presence of each other, it appears to me that every form of worship and devotion, which shall give expression to these states of mind, is not only permitted, but enjoined by natural religion. It teaches us, however, humbly, to regard ourselves as enjoying a vast privilege, and reaping an unspeakable enjoyment, in being thus permitted to lift up our minds to God; and it dashes away the thought, as impious and unwarrantable, that by our devotions we can render God happier or better; or pay back, by any service of ours, his boundless gifts to us. Natural theology also puts to flight every conception of our pleasing God by professions of respect which we do not feel, or of propitiating his favour by praises of his laws, while we neglect and infringe them. In short, it renders the practice of our duty at once a test of our sincerity, and an indispensable antecedent to our receiving benefits from God. This appears to me to be also the essential character of Christianity.

You will observe that in this summary there is no notice of punishment and reward in a future state, and no intima-

* Sketches, B. III. Sk. 3. ch. iii. § 1.

tion of means by which we may obtain forgiveness for transgressions of God's commandments. On these topics natural theology appears to me to be silent.

LECTURE XX.

OBJECTIONS CONSIDERED.

Clerical hostility to the scientific education of the people—Intellectual cultivation not only not adverse to practical Christianity, but favourable to its reception—Instance of the Hindoos—Mistaken views of religious persons in former times with respect to witchcraft—The pope's method of averting cholera by a religious procession—Clerical hostility to Phrenology and the doctrine of the natural laws—These the allies, not the foes, of Christianity—Conclusion.

In concluding these lectures, I beg your attention to a denouncement of the whole course of study in which we have been engaged, which appeared in the prospectus of The Christian Herald.* "All sorts of literary machinery, newspapers, lectures, treatises, magazines, pamphlets, schoolbooks, libraries of knowledge, for use or for entertainment, are most diligently and assiduously set in motion, if not for purposes directly hostile to the gospel, at least on the theory that men may be made good and happy without the gospel; nay, though the gospel were forgotten as an old wives' fable. It were well if they who know the wretched infatuation of such views, were alive to the importance of at least attempting to set similar machinery in motion for the production of a religious impression." The prospectus continues: "It is impossible, even if it were desirable, to check the current of cheap popular literature; but it may be possible, through faith and prayer, to turn it more nearly into a right channel." The impossibility of *checking* is here assigned as the paramount reason for attempting to direct the current; whence we may infer that these respectable divines would have stopped it, if they could. Let us inquire, therefore, with becoming deference, but with the freedom of men who have the privilege of thinking for themselves, into the grounds of these opinions and charges.

* The Christian Herald is a cheap weekly periodical, conducted by members of the church of Scotland, and devoted exclusively to religion. The prospectus was issued in January 1836

In my eighteenth lecture I introduced a simile of an angel being sent from heaven to teach a celestial choral symphony to men, in order to prepare them, on entering the realms of bliss, to join in the strains of their new abode; and observed that this might be conceived without imagining the angel to create new faculties—his object being only to elevate, quicken, and improve those that existed in human nature. I used this as an illustration of the relation in which the supernatural truths communicated by scripture stand to the moral and intellectual faculties of man. The truths of scripture do not create new powers and organs in us; they only purify, exalt, and guide those which we previously possessed. I observed farther, that those individuals who possessed the largest and the best cultivated organs of Tune and Time, would be in the best condition to profit by the angelic teacher's instructions; and I now add that those individuals who enjoy the most vigorous and best exercised moral and intellectual faculties, will, in my opinion, be best prepared to profit by the lessons of scripture.

How would it strike you, then, if the angelic teacher were to reproach the human professors of music, whom he found on earth instructing their pupils in the best music which they knew, and teaching them the practice of the art, with the offence of treating the divine symphony as an old wives' fable? They might most reasonably answer, "O angel of light, we and our pupils are humble men, and we do not enjoy the benefits of inspiration. We cannot cause the solemn organ to roll forth its pealing strains, until we have studied its stops, and accustomed our mortal fingers to press its keys. We cannot make the dorian flute breathe its soft melodies, until we have learned its powers, and practised the delicate movements without which it yields only discordant sounds. We mean no disrespect to your heavenly air, but we mortal men cannot at all produce music, until the mental faculties and bodily organs, on which musical skill depends, have been trained to the art, and we are now instructing ourselves in our own humble way. We are exercising our mental faculties and our physical powers, to bring them into a condition to hear, feel, comprehend, and execute the exalted duty which you assign to us. Do not, then, reprimand us for acting according to our nature, help and encourage us; and you will discover, those of us who have most assiduously studied and practised our earthly music

will most readily and successfully acquire your heavenly strains."

The angel might blush at this reproof. But the simile is applicable to the divines who now denounce us, the teachers of natural science, as guilty of impiety. The truths of scripture are addressed to the identical faculties with which we study human science. They are the same intellectual powers which judge of the evidence and import of scripture, and of the truths of chemistry, geology, and phrenology; and they are the same moral and religious sentiments which glow with the love of the God of the New Testament, and with that of the God of natural religion: nay, not only are the faculties the same, but their object is the same. There are not two Gods, but one God, whose character is identical in both of the records. Christianity is not diffused miraculously in our day: and unless, therefore, the sentiments and intellectual powers to which it is addressed be previously cultivated by exercise, and illuminated by knowledge, its communications fall on stony ground and take no root. In May, 1835, the missionary, Dr. Duff, told the general assembly of the church of Scotland, that, in consequence of the minds of the Hindoos being entirely deficient in this previous training and exercise, the gospel appeared to them actually like an old wives' fable. He preached it in its purity and its might; yet it fell dead on their ears, and was lost. What remedy did he propose? To do the very thing for which we are now vituperated by our reverend pastors; he begged the assembly to provide funds to enable him to teach the rudiments of physical science and the elements of useful knowledge to the Hindoos, to prepare them for comprehending the gospel. And he was right. The elements of science are the truths of God adapted by him to the constitution of the human faculties, just as the atmosphere is adapted by him to the human lungs, and the lungs to it. As the lungs are invigorated by respiring atmospheric air, so are the intellectual and moral faculties rendered alert and energetic, and prepared at once to discriminate and to appreciate truth, by the study of natural science. On the other hand, until they be so cultivated and quickened, they are the ready dupes of superstition, and are not prepared to reap the full benefit even of Christianity. Reflect on the state of Spain, Portugal, and Italy, and you will learn the consequences of profound ignorance of natural science on the religious con

dition of the people. Gross superstition holds the place of rational devotion, and senseless ceremonies are the substitutes for substantial morality.

Our own population are more enlightened than the people of these countries, but they still continue too ignorant of natural science, and particularly of the philosophy of the mind. As neither they nor their clerical teachers appear to give due effect to the truth which I am now expounding, that Christianity requires cultivated faculties before it can produce its full practical benefits, I beg leave to illustrate this proposition a little more in detail.

In the sixteenth and seventeenth centuries, divines and the people at large, both in England and Scotland, were in full possession of the scriptures. The reformation was completed, and printing was in active operation; yet, in those centuries, clergymen sat as judges, and condemned old women to the flames as witches. Now, what was the cause of this barbarity? At that time there was neither physical nor mental science; the phenomena of nature were believed to be under the influence of magicians, of evil spirits, and of the devil; and those unhappy victims of ignorance, cruelty, and superstition, were believed to be in league with these powers of darkness. It was the dawn of physical philosophy which opened up the creation to the human intellect, and revealed it as the vast domain of God; whereas, before that dawn, ignorant divines, with the Bible in their hands, had mistaken it for the realm of the devil. It was science that delivered the clergy and their flocks from the practice of atrocious cruelties, from which the unaided Bible had not sufficed to protect them. It is no disparagement to the Bible to say this, because it was never intended to supersede the study of God's will as revealed in the records of creation; and, in falling into superstition, the clergy and people were suffering the penalty of having omitted to discharge that duty to God and to themselves.

Again; I mentioned to you at an early stage of these lectures, that, when Rome was threatened with cholera, in the year 1835, the pope and cardinals carried a black image of the Virgin in solemn procession through the streets; while *our* public authorities, in similar circumstances, cleaned the whole city from filth, purified the alleys and confined courts by fumigation, provided wholesome food and clothing for the poor, and organized hospitals for the reception of

the sick. What was the cause of this difference of conduct? Our clergy represent the cause of this proceeding of the Italians to be their want of the Bible: this is one cause; but it is notorious, that, both in our own country and in Protestant Germany, although the laity enjoyed the scriptures, they continued superstitious, fierce, and cruel, until human science dawned on their minds, and co operated with the Bible in developing the spirit of Christianity. The Roman people are grossly ignorant of physiology and the laws of the animal economy, and their dull minds perceived no connexion between the disease and the condition of their bodies. Edinburgh, on the contrary, was the seat of an enlightened medical school, and there were a great number of men who saw the connexion between impure air, filth, low diet, and deficient clothing, and disease of every kind; and they, therefore, although as ignorant as the pope himself of the special causes of the cholera, knew perfectly how to operate in conformity with the general principles of health; and they were aware, that whatever tended to promote the strength of the body and the tranquillity of the mind, would serve to abate the virulence even of an unknown disease. The procession of the Virgin, therefore, would here have been regarded as a mockery of the human understanding, and an insult to the majesty of heaven. But how have we come to entertain views so much more rational than those of our Roman brethren? Not by studying the scriptures; because the scriptures are not designed to teach truths which we can discover by the exercise of our own understanding; but by the study of the anatomy and physiology of the body, and the laws of the animal economy in general. Part of the course of instruction offered to you by this Association* has been that very science which led to these wise measures, and we know the beneficial results which attended them. The cholera has not yet actually visited Rome, and no doubt his Holiness is triumphing in the success of his intercessions; but we have observed that the disease moves by unknown laws, that it occasionally passes over a city for a time, and comes back upon it with the full force of its destructive influence. Rome, therefore, waits her time; Edinburgh has met the evil, and triumphed over it. It will be admitted that the citizens of Edinburgh acted the more purely Christian part in this emergency. Yet

* "The Philosophical Association" of Edinburgh.

their superior knowledge of physical science was the great cause of their superior Christian practice. Why, then, should our clerical guides charge us with contempt of the Bible, because we teach the people the very knowledge which serves to render them willing, able, and intelligent co-operators with the plans of Providence in the natural world; which guards their minds from becoming the slaves of gross superstitions; and which, by cultivating their moral and intellectual faculties, renders them apt learners of the precepts of Christianity?

But I am led to believe that phrenology and the doctrine of the natural laws have particularly attracted the displeasure of these clerical guides, and that phrenologists are considered to be particularly chargeable with the sin of aiming at making men "good and happy without the gospel." It is agreeable to find that we are charged with no worse offence, than attempting to make men "good and happy," even although our method of doing so be disapproved of. I admit that I do not teach the gospel in these lectures, neither do professors of chemistry and anatomy teach it in their courses. But the reason is, that it is the duty of the clergy themselves, and not that of the professors of natural science, to teach the gospel to the people.

What, however, does phrenology teach? It teaches the nature, functions, uses, and abuses of each of our faculties; it shows us that the moral and intellectual powers are given to guide our inferior feelings; and it informs us that we must observe the organic laws in order to preserve our brains in health, otherwise our mental powers will be impeded and deranged in their action. It leads us, in short, to study *ourselves*, and our relations to the external world, and to practise the duties thence discoverable, as acts of obedience to the will of God. The result is, that, instead of being lost in a mist of vague notions of what constitutes sin and what righteousness, our disciples are enabled to distinguish good from evil in the uses and abuses of their faculties: instead of wandering amid dark superstitions, and perhaps praying to God for health or other benefits, yet blindly neglecting every law of physiology on which health, or the realization of their other desires, depends, they recognise the imperative necessity of first obeying God's laws of health established in their constitution, or his other natural laws related to the objects prayed for; and then, and then only, do they ven-

ture to approach him for his blessing and his benefits. Instead of seeing in the external world only a vast confusion of occurrences, in which sometimes the good triumph, and sometimes the wicked—in which the imagination is bewildered, and the moral affections disappointed in not recognising God—they, by being taught the spheres of the different natural laws, by being instructed to trace their relations, and by being made aware that each acts independently, and produces its own consequences of good or evil —have their eyes opened to the magnificent spectacle of a world full of the wisdom and goodness of God, specially adapted by him to man's moral and intellectual powers, pervaded in every department by an intelligible and efficient government, and the whole tending regularly and systematically to favour virtue, and to punish vice. They recognise the duties of temperance and activity—of moral, intellectual, and religious cultivation—of affection to kindred—of the love of mankind, and of God—and, above all, of obedience to God's will—to be engraven on their bodily and mental constitutions, and to be enforced by the external creation. Is it then treating the gospel as an old wives' fable, to teach the people such knowledge as this? Is it "a wretched infatuation" on our part thus to prepare the mind, by a pure, invigorating, and elevating cultivation, to receive, profit by, and practise, the precepts of that very gospel itself? And what are these divines themselves doing?

I find, in a review of the Christian Herald in a London newspaper,* the following remarks on this subject: "The natural world is too interesting to the human intellect to be quietly laid on the shelf, or to be forgotten as an old wives' fable, and inquiring minds will continue to study it in spite of denunciations such as those now cited. If the divines do not connect Christian theology with philosophy and science, they will every year find a spirit gaining strength against them, which will ultimately compel them to follow this course, at whatever trouble and disappointment to themselves. In this journal (the Christian Herald) they treat the whole material creation with exactly the same neglect with which they accuse the authors of worldly literature and science of treating revelation; and with less show of reason. Scientific writers are entitled to say that this world comes first, and that, in unfolding its philosophy, they are

* The Courier of 17th March, 1836.

preparing the way for the clergy to teach the doctrines that relate to futurity. But the clergy, in proceeding at once to the concerns of the next world, begin at the end. They proceed to tell the people how to reap the harvest, without teaching them how to cultivate and manure the soil, and how to sow the seed." These remarks are so directly applicable to the point under consideration, that I cannot add to their force. I only remark, farther, that I have hitherto abstained from retaliation for the condemnation poured out against these lectures from the pulpit* and the press; and all that I now do is, respectfully to beg of you to consider, whether, if it be a truth in nature, that large, energetic, and well-exercised moral and religious organs are necessary to vigour of mind, and that obedience to God's natural laws is necessary to the profitable reception and practice of Christianity, divines would not be better employed in inquiring patiently into the truth of these propositions—and if they find them to be true, in teaching them, and encouraging others to teach them—than in shutting their eyes against the palpable light of God, and denouncing us as unfaithful to his cause, when only they themselves are, ignorantly, vilifying his institutions.

Again; Phrenology shows that moral and religious sentiments enlightened by intellect have been intended to guide the inferior faculties of man; and by the study of political economy you will discover that the whole relations of the different members of the state, and also of different nations, toward each other, uniformly produce good when they are in accordance with the dictates of these superior faculties, and evil and suffering when they deviate from them: that is to say, when the laws of any particular people approach to the closest conformity with the dictates of benevolence and justice, they become most beneficial for the whole public body, and when they depart from them, they become most injurious; also, when a nation, in its treaties and relations with foreign states, acts on the principles of benevolence and justice, and limits its own exactions by these principles, it reaps the greatest possible advantages, while it suffers evil in proportion as it attempts to gain by selfishness, rapine, force, or fraud. These truths, I say, are rendered clear by the combined sciences of phrenology, which proves the existence, nature, and objects of our moral faculties, and

* While these lectures were in course of being delivered, one of the ministers of Edinburgh preached against them.

political economy, which unfolds the effects on human welfare of different political, economical, and legislative institutions and systems of action. I appeal to every man possessed of common understanding whether teachers of such doctrines are, or are not, preparing the public mind for the practical developement of that grand Christian condition of society, in which all men shall act as brothers and love their neighbours as themselves. Nay, not only so, but I request you to consider the futility of teaching these sublime precepts to a people left in the maze of selfishness, which is their inevitable condition until their minds be imbued with the truth, that the world is actually constituted in harmony with the dictates of the moral sentiments of man.

Your time will not permit me to extend these remarks farther; but nothing would be more easy than to trace the whole circle of the sciences, and show how each of them is a pioneer to the practical developement of Christianity.

It is true that we do not carry them forward to these applications in our lectures, and I presume this is the ground of the harge against us: but why do we not do so? Because it is the peculiar and dignified province of divines themselves so to apply them. Would you reproach the ploughman who in spring tilled, manured, and sowed your field, because he had not in spring also, and with his plough for a sickle, reaped the crop? Equally unreasonable and unfounded is this charge against us. We are the humble husbandmen, tilling, manuring, and sowing the seeds of knowledge in the public mind, and to the clergy is allotted the more honourable charge of tending the corn in its growth and reaping the golden harvest.

The cultivation of the moral nature of a being journeying through life on his way to a future state, bears the same relation to his preparation for eternity, that tilling and sowing in spring bear to the reaping of the fruits of harvest. It is clear, then, that if we are cultivating, enlightening, and improving the mental powers of our audiences for this world, we are rendering them also fitter for the next; and that divines should dovetail their own instruction with ours, in so far as we disseminate truth, and should carry forward the pupils to whom we have taught the rudiments of natural knowledge, to the full perfection of rational and Christian men. But here the real cause of their hostility presents itself. They really do not yet know how to do so. Phre-

nology, which unfolds the functions, uses, and relations of the human faculties, and which, for the first time since man was created, enables him to discover his own position in the world which he inhabits, is a science, as it were, only of yesterday. It is a recent discovery; and divines, in general, know it not. General physiology, as a science of practical utility, is as young as phrenology; because it could not advance to perfection while the uses of the brain, and its influence, as the organ of the mind, over the whole of the animal economy, were unknown. Divines, therefore, do not yet know its relations to their own doctrines. Geology, which teaches the past history of the globe, is also but of yesterday; while chemistry, and other physical sciences, are all of recent introduction to the intellects of the people. The idea of employing these sciences, at all, to the moral and intellectual improvement of the great body of the people, is new, and the notion of rendering that improvement subservient to Christianity is newer still; and our clergy, in general, are yet strangers to both ideas. They are proceeding on a system of their own, which was instituted when all education for the common people consisted in reading and writing, and for the higher ranks in Greek and Roman literature; and they feel uneasy at discovering a vast stream of knowledge rolling along the public mind, which has not emanated from themselves, and with which their system is not yet connected. This is their misfortune; and we should bear their opposition with equanimity, as the result of imperfect knowledge, in the assured confidence that, whenever they discover that they cannot arrest our course by declaiming against us, they will profit by our labours and join our ranks, and that hereafter they and we shall be found labouring together for the public good. They and we are all engaged in one design. Theirs is the most exalted, most dignified, and most enviable vocation allotted to man; and I feel assured that, in a few years, they will find their strength, usefulness, and pleasure, unspeakably augmented by the very measures which we are now pursuing, and which they, not knowing what they do, are vilifying and obstructing.

Here, then, I conclude this course of lectures. It has embraced a mere sketch or outline of a mighty subject, and has been chargeable with many imperfections. I feel much gratified by the kind attention with which you have followed

my observations. If they have conferred pleasure or instruction, my object will have been gained. If they shall prove the means of exciting your minds to follow out the study for your own improvement, I shall feel the highest satisfaction. I have spoken plainly and forcibly what appeared to myself to be true. If I have sometimes fallen into error, (as what mortal is free from liability to err?) I shall be anxious to obtain sounder and juster views; but if I have in other instances given a correct exposition of the order of the divine government of the world, and the principles of natural religion, I hope that you will neither be startled at the novelty, nor offended by the consequences, of the ways of Providence, which I have expounded. You know your own position. You are the first popular audience in this city to whom the truths and the consequences of the new philosophy of mind discovered by Dr. Gall, have been unfolded; and you are aware that in every age the most useful and important truths have had to contend with violent prejudices when first promulgated. You have an admirable rule, however, prescribed to you for your guidance, in the advice given by Gamaliel to the high priest of the Jews. "If this counsel or this work be of men, it will come to nought; but if it be of God, ye cannot overthrow it." (Acts v. 38.) If I have truly interpreted to you any of the works and ways and laws of the Almighty, his arm will give efficacy to my instruction: if I have erred, my words will come to nought. In either event truth will triumph, and we shall all become wiser and better.

APPENDIX.

In the year 1826, I published, in the 3d volume of the Phrenological Journal, an article on the "Causes of the Commercial Distress" which then afflicted Great Britain. All the observations which I have made since that time, have tended to confirm the views therein expressed; and as the same causes continue to operate, and to produce the same disadvantageous effects, I am induced to reprint the following observations as a suitable appendix to the preceding lectures.

It is a fundamental doctrine of ours, that the faculties common to man with the lower animals are inferior to those proper to man; and that the Creator has so arranged the world, that misery is the natural result of the predominance of the former, and happiness of the latter. We shall endeavour to apply these principles in accounting for the commercial distress which has of late so painfully engaged public attention.

In a period of profound peace, and immediately after one of the finest summers and most abundant harvests ever showered by a bountiful Providence on Britain, this country has been a theatre of almost universal misery. In October and November, 1825, stocks began to fall with alarming rapidity; in November, numerous bankers in London failed; in December, the evil spread to the country bankers; in January and February, 1826, the distress overtook the merchants and manufacturers, thousands of whom were ruined, and their workmen thrown idle; agricultural produce began to fall, and suffering and gloom extended over the whole empire. These events carried intense misery into the bosoms of numberless families. The phrenologist, who knows the nature of the propensities and sentiments, and their objects, is well able to conceive the deep, though often silent, agonies that must have been felt when Acquisitiveness was suddenly deprived of its long-collected stores;—when Self-Esteem and Love of Approbation were in an instant robbed of all the pride, pomp, and circumstance of worldly grandeur, that, during years of fancied prosperity, had formed their chief sources of delight; and when Cautiousness felt the dreadful access of despair at the ruin of every darling project. The laceration of these feelings hurried some unfortunate victims to suicide, and spread mental and bodily distress widely over the land. So dire a calamity indicates to our minds, in the most unequivocal manner, some grand departure from the just principles of political economy, or, in other words, from the dictates of the higher sentiments, which we hold to be the real basis of all sound political philosophy.

This distress appears to us to have originated in our paper currency, which, so far as we at present perceive, is founded

in injustice, and which, consequently, is unsound, and dangerous in its consequences.

Suppose A to possess £20,000 in money invested in land, houses, government stock, or some other fixed and productive form, yielding a return of 4 per cent., or £800 per annum; that he pledges this investment to the public, and is permitted on the security of it to issue bank-notes to the value of £20,000: in this case real property could be made forthcoming in case of necessity to retire the notes, and, according to the general opinion, no harm would arise to the public from the transaction. Let us, however, trace its effects.

Suppose A to confine himself to the proper business of banking, and that he puts £20,000 in notes into circulation, he would draw first £800 a year of interest from his capital, and then £1000 a year of interest at 5 per cent. from his notes, in all £1800 per annum. It is obvious that he could afford to discount bills with his bank-notes, or lend them at interest at a lower rate than if he carried on the same operations with real money, which could not both be laid out at 4 per cent. in land or stock, and remain at its owner's disposal, yielding 5 per cent. more at one and the same time. The moment, therefore, that A with his notes comes into competition as a banker or money-lender with other individuals who employed real capital in these operations, he is able to beat them out of the market by lowering the rate of interest. If he draws 3 per cent. for his notes and 4 per cent. of regular return from the invested capital, he will receive 7 per cent. in all, when other capitalists, who do not first invest their money productively, and then issue notes, are drawing only 3 per cent.

This is unjust; and yet this was the real state of matters during the prodigious fall of interest in 1824 and 1825. The bankers issued their paper in floods; and to keep it in circulation and increase its quantity, they lowered and lowered the rate of interest: Nevertheless bank stock rose, trade increased, and every one seemed to flourish except the holders of money capital, who were impoverished by the impossibility of finding investments, or obtaining a moderate interest for their stock. The bankers were well able to do this; for those who had capital profitably invested to the extent of their notes, drew the above-mentioned double return, and actually realized 7 or 8 per cent., when other capitalists were receiving only 3 or 4. Those bankers, again, (of whom there seem to have been many in England,) who had no invested capital or real stock of any kind, could discount bills with notes, or lend at a very low rate of interest; for, as their notes cost nothing beyond paper, engraving, printing, and stamp, and as they had nothing behind them to lose, whatever interest they received, if it exceeded these expenses, was all gain.

From these principles it follows, that every man who first

invests his capital productively, and then issues bank-notes at interest on the credit of it, places himself in a situation of great advantage over those individuals who act as bankers, or lenders at interest, with money capital itself; and that the latter can never compete on equal terms with the former, except by investing their capital also in a productive form, and issuing bank-notes on the credit of it to the same extent with their rivals. If, to protect himself, every one were to issue notes to the extent of his invested capital, paper would become so redundant as to have scarcely any value, and would speedily be put down as a public nuisance; and yet, unless every man who possesses real property does this, he is injured by the issue of notes by his neighbours.

The effects of the paper system may be farther illustrated. Let us suppose the trade of a country to be carried on by means of gold and silver as the medium of exchange; then the following results will take place: The precious metals are real commodities, which cannot be increased instantaneously to an unlimited extent. They are procured by labour, and require time for their increase. A small trade requires a small supply, while a great trade demands a proportionate quantity of them. If trade increases faster than the supply of gold and silver, they will become relatively scarce, and their value will rise; or, in other words, the price of goods will fall. This fall will check production until the supply of gold and silver has increased in proportion to the trade, when prices will again rise, and production will proceed.*

* Since the text was written I have had an opportunity of observing the effects of a paper currency in the United States of America, and perceive, that, for the purposes of exchange of real commodities between individuals and also between states, any species of currency that represents, and never exceeds, the value of the articles exchanged, will meet the exigencies of commerce. In 1840, there was scarcely a currency of any kind in circulation in Philadelphia. The banks had suspended cash payments in October, 1839, and in the subsequent spring, with a view to diminishing their circulation, they declined to issue notes. The commerce of that great city proceeded with little interruption. The banks discounted bills as usual; but in place of paying notes, they merely placed the proceeds to the credit of the merchant. When he wished to pay debts, or to retire his own bills due at other banks, he presented a check to his own banker for the amount wanted; his banker marked it "good," and it was then received by all the merchants and banks as money. The banks made up their balances between themselves, and paid interest when they were debtors and received it when creditors of each other. In London, transactions to a large amount are settled every day

According to this principle, while gold and silver are the circulating medium, full scope is given for a gradual production of wealth, because those metals can be increased by time and labour, in proportion to the increase of population, and the natural augmentation of commodities. At the same time a positive check to over-production in every branch of industry is supplied, because the metals cannot be instantaneously and indefinitely increased: whenever goods are produced with undue rapidity, money will become relatively scarce and prices will fall.*

by means of checks, for which money is never drawn, but which practically produce only a transfer of debits and credits in the accounts kept by the merchants with their respective bankers. Paper money is so convenient a currency for settling transactions in this manner, that few persons perceive where its advantages end and its disadvantages begin. The turning point appears to me to be this. It will serve admirably well, as long as the commodities, in exchange of which it is employed, are of equal value: but *it will not serve to discharge a balance.* It has no real value in itself, and cannot therefore compensate or pay for an article of real value. As long as Philadelphia sold as much to New York, for example, as she bought, the paper of the two cities was at par in both. But when Philadelphia bought more than she sold, New York demanded specie for the balance; and as Philadelphia had no specie to give, her paper currency fell to 9, 10, and 11 per cent. discount in New York. The constant tendency of a paper currency is to expand itself beyond the value of real commodities, and thereby to produce commercial revulsions.

* The proposition in the text may be more correctly stated as follows: Whenever production in any branch of manufacture becomes excessive, the articles produced fall in value, because nobody wants the surplus quantity. If they have been raised by an expenditure of currency, obtained on credit, and when sold exchange for less than the amount of currency expended in producing them, the difference must be made up, and it will be a loss to the manufacturer if he be able to pay it, or to the banker who gave the credit, if the manufacturer be insolvent. If the currency be specie, (the amount of which is limited by nature,) the banker cannot obtain it himself, and therefore cannot lend it *ad libitum*, and the manufacturer is consequently *arrested* by nature in his *tendency* to over-production. If the currency be one of paper, which may be increased *ad libitum*, the banker issues as long as the manufacturer demands it, and the first check is experienced only *after* the evil is done, when over-production has actually occurred, and when the commodities produced can no longer be exchanged for as much currency as was expended in their production. The

On the bank-note system the order of nature is exactly reversed. If immense manufacturing, buying, and selling take place, even without corresponding consumption, bills are multiplied—and when bills are multiplied, discounts increase—and where these abound, the paper circulating medium increases; when the circulating medium increases, prices rise; and hence we have the absurd anomaly of rising markets in the face of enormous over-production. We have also the strange facts of interest falling as trade increases, and the difficulty of finding employment for capital reaching its acme when transactions to a most unwonted extent are going forward, requiring a vast amount of circulating medium.

The result of this system renders the error of principle involved in it still more conspicuous. In 1824–5, the bankers, tempted by the flood of wealth that flowed in upon them in the form of interest for their notes, preserved no bounds to their issues; they discounted bills at 6, 9, and 12 months' date, lent on mortgages, and in England bought mills and lands, and even became manufacturers themselves. When their notes were returned, these securities were not convertible, the bankers failed, a panic arose, and paper was poured back upon them in a stream of frightful magnitude and extent. Those bankers, who had nothing to give in return for their notes, except the bills of merchants for which they had at first issued them, called on the merchants to pay; the latter, however, had nothing except the goods which the bills represented. The goods, unfortunately, had not been produced to meet the real wants of society, but had been fostered into existence by the temptation of profit, which dazzled first the manufacturer, and then the banker who discounted his bills; and at last, when the paper currency ceased to flow, and the goods were to be bought by real capital, they fell 50 per cent.; the merchants were unable to pay, and bankruptcy stalked far and wide over the land.

If, as in Scotland, the bankers had land, houses, stock, or other property behind their notes, they were able to make up the deficiency arising from the failure of the merchants; but they became alarmed at the extent of their losses, drew in their notes, lessened the circulating medium, and depressed the prices of goods to the lowest ebb. Real capital then came into request, interest rose, and £100 in real cash bought more goods than £150 did while the country was deluged with paper.

Matters will remain in this state until the stock of manufactured articles is brought below the natural demand; trade will then revive, and for a time be profitable; confidence will be restored, and bills again be granted, discounts will follow, paper currency will increase, prices will continue to rise, production will be pushed to the last extremity, everything will appear to flourish for a time, till another crash arrives, and losses from over-production, therefore, will be greater where a paper, than where a metallic, currency prevails.

then we shall be told about the calamities of life and commercial distress, and perhaps see a little deeper into the causes, and at length look for a remedy.

According to our view, instead of the abolition of one pound bank-notes being an evil, the only fault of the measure is, that it does not go far enough, and do away with bank paper altogether. We fear that the national debt would become an intolerable burden if this was done; but, nevertheless, as long as we suffer a paper currency to exist—a currency which can be produced without labour, and increased without limits, and which enables the issuer of it to reap *double* profits at the expense of those who do not issue bank-notes—so long will the nation be doomed to suffer the punishment which follows every departure from justice and sound principle. It has been said, that the holder of £20,000 of capital may lend this sum, and he will easily get credit for £20,000 more on the faith of it; and thus he will be on a par with a banker who invests his capital and then issues notes. But there is this difference: the banker and capitalist are, no doubt, on a par in both drawing a return for their £20,000, if they lend them; but when the latter goes to market and asks credit for £20,000 worth of goods, he has to pay the *credit* price, or 2½ per cent. for three months; whereas the issuer of notes pays his notes for the goods, and gets this per-centage of discount. Here the injustice of the principle is equally obvious.

Our limits prevent us from tracing out all the evils of the paper system in their minute ramifications; but we take our stand here—that its principles are unjust and unnatural, and that all its consequences must be evil. We proceed, therefore, to apply phrenology to this subject. According to our view, the Creator has framed the world on the principle of the predominance of the higher sentiments; that is to say, if mankind will condescend to seek their chief gratifications in the exercise of Benevolence, Veneration, Conscientiousness, and Intellect, they will be exempt in an amazing degree from calamity; while they will suffer continually recurring misery so long as they place their highest enjoyments in the gratification of the lower propensities. It is an undeniable fact, that the inhabitants of Britain generally are involved in a chase of wealth, power, and personal aggrandizement, or the gratification of Acquisitiveness, Self-Esteem, and Love of Approbation, to the exclusion of everything like systematic cultivation of the proper human faculties before enumerated. Now, if our principle be correct, they never can be happy while this is the case. If the Creator have intended the higher powers to prevail, his whole arrangements must be in harmony with them, and the world must be so constituted that it is possible for every individual to reap the enjoyment for which existence is given. By the gratification of the higher powers, we do not mean mere psalm-singing and superstitious devotion; but en

lightened religion, the exercise of habitual benevolence, justice, and respect between man and man, the reciprocal communication of knowledge, and the systematic exercise of the intellect in studying the laws of creation. For these ends a portion of time every day is requisite: but on the present system the whole energies, bodily and mental, of millions of our population, are expended in ministering to the gratification of Acquisitiveness, Self-Esteem, Love of Approbation, and still lower animal propensities; and, if suffering follow this course of conduct, men have themselves alone to blame. If, by the arrangements of the Creator, the labour of six or seven hours a day is amply sufficient for the full satisfaction of every desire that mere physical objects can gratify, and if the other hours, not necessary for sleep, were intended for the exercise and gratification of the moral and intellectual powers—then men, by devoting their whole time to the former, and neglecting the latter, must necessarily produce evil to themselves.

Accordingly, this is the actual state and result of matters in Britain at the present time. The labouring population are forced to work ten or twelve hours a day; this creates a great redundancy of goods; then they are thrown entirely idle, and suffer infinite misery, and their masters are involved in bankruptcy and ruin. The bank-notes, by enabling the masters to force production at this rate, (which without them would be impossible,) greatly contribute to this evil. The Creator's laws at the same time show themselves paramount even in the breach of them, for if the months, days, and hours of idleness which follow regularly, on every stagnation of trade, had been distributed over the working days, they would have reduced each day's toil to the precise extent that was *really necessary* for the satisfaction of actual human wants; and the same law will continue to rule the world whether men recognise it or not. If the masters could be persuaded to establish schools, libraries, and every means of moral and intellectual cultivation, and allow their workmen systematically to cultivate their human faculties for three or four hours a day, trade would go regularly on, there would be no gluts of the market, profits would be steady, crime would diminish, and a flood of moral and intellectual enjoyment would spread over the land, that would render earth the porch of heaven.

These ideas, we fear, will be regarded by many as Utopian, but we may notice a practical illustration of them, which, we think, will be generally recognised. By the combination laws, the workmen were punishable for joining together in a resolution to have their wages raised. This was clearly in opposition to justice. The wisdom of our present excellent ministers repealed this enactment. Last summer and autumn extensive combinations were formed among the operative workmen for a rise of wages, and they struck work for several months because their demands were not complied with. The masters

and the conductors of the public press clamoured against ministers, and complained that the country would be ruined if the law were not restored which enabled the employer to compel his servants to work at such wages as he chose to give. We noticed at the time that these complaints proceeded from shallow minds, and that the just law would ultimately prove the most beneficial. Already this prediction has been amply fulfilled. The demand for workmen last summer now turns out to have been entirely factitious, fostered by the bank-notes; and the whole manufacturing districts to have been engaged in an excessive over-production. The combination of the workmen was one of the *natural checks* to this erroneous proceeding; to have compelled them by force to work would have aggravated the evil; and it is a notorious fact, that those masters whose men stood longest out are now best off, for their stocks were sold off at the high prices of summer, and having been prevented from laying in more, they now rejoice when their fellows mourn. Glasgow has been saved a great deal of calamity by the workmen standing out so long. The practical men should confess this, and do justice at once to the laws of the Creator and the wisdom of ministers.

We close with a last example. Leather made from hides of *home-slaughter* has preserved its price, and continued steadily in demand amid an extensive fall on leather of every other description; and the reason is, that as cattle are killed for their flesh, and not for their hides, the supply of these could not, by human contrivance, be increased in proportion to the cupidity of the manufacturers, but remained nearly stationary at the rate of the *natural demand*. Leather made from imported hides, which, under the impulse of Acquisitiveness, were procured from every corner of the earth, is of a different quality, and cannot be substituted for the other, and the stock of it is now excessively redundant, and the price ruinously low. Wherever the human intellect supplies the check that nature affords in the home hide trade, the results will be equally consolatory. The profits of that business, we are told, have been regular and steady; the stock, although lowered in value by the present crisis, is comparatively little depressed, and is said to be one of the safest and steadiest branches of manufacture at present prosecuted in Britain.

POSTSCRIPT.—The events which have occurred in Britain since 1826, when the preceding remarks were published, have afforded a striking confirmation of their truth. At a meeting of the Chamber of Commerce and Manufactures, held in Manchester in December, 1839, it was shown that the sudden expansion of the currency, by the extensive issue of bank-notes, raised prices of goods instantaneously: while its contraction, by withdrawing them, caused a depression of prices, in both instances, to the extent of 25 per cent. in a few months

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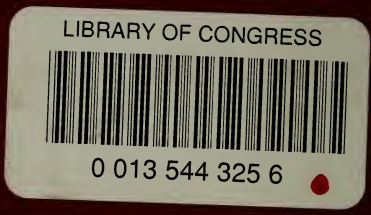
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